



EACVI
European Association of
Cardiovascular Imaging

EuroEcho 20 Imaging 18

EXERCISE AND SPORT | VALVULAR HEART DISEASE

**5/8
December**

Milan
ITALY

**FINAL
PROGRAMME**

22nd Annual Congress
of the European Association
of Cardiovascular Imaging (EACVI),
a branch of the ESC.

www.escardio.org/EACVI



ESC
European Society
of Cardiology

Table of Contents

Click on the page you want to see

ABOUT THE CONGRESS

> Building Overview	P. 4
> Welcome Address.....	P. 5
> EuroEcho-Imaging 2018 Committees.....	P. 6
> About the EACVI.....	P. 8
> Congress Timetable.....	P. 9
> Don't Miss Sessions.....	P. 10
> Congress Information.....	P. 11
> Industry at EuroEcho-Imaging 2018.....	P. 13

PRACTICAL TUTORIALS.....p.16

WEDNESDAY 5 DECEMBER

> Teaching Courses	P. 29
> Other Sessions - Morning.....	P. 38
> Other Sessions - Lunch Time.....	P. 40
> Other Sessions - Afternoon.....	P. 43
> Posters Sessions.....	P. 48

THURSDAY 6 DECEMBER

> Morning Sessions.....	P. 64
> Lunch Time Sessions.....	P. 73
> Afternoon Sessions.....	P. 76
> Poster Sessions.....	P. 87

FRIDAY 7 DECEMBER

> Morning Sessions.....	P. 115
> Lunch Time Sessions.....	P. 124
> Afternoon Sessions.....	P. 125
> Poster Sessions.....	P. 137

SATURDAY 8 DECEMBER

> Morning Sessions.....	P. 166
> Poster Sessions.....	P. 175

INDEX

> Sessions by type.....	P. 189
> Chairpersons.....	P. 194
> Speakers.....	P. 196
> Authors.....	P. 199



Download the EuroEcho-Imaging 2018 Mobile App

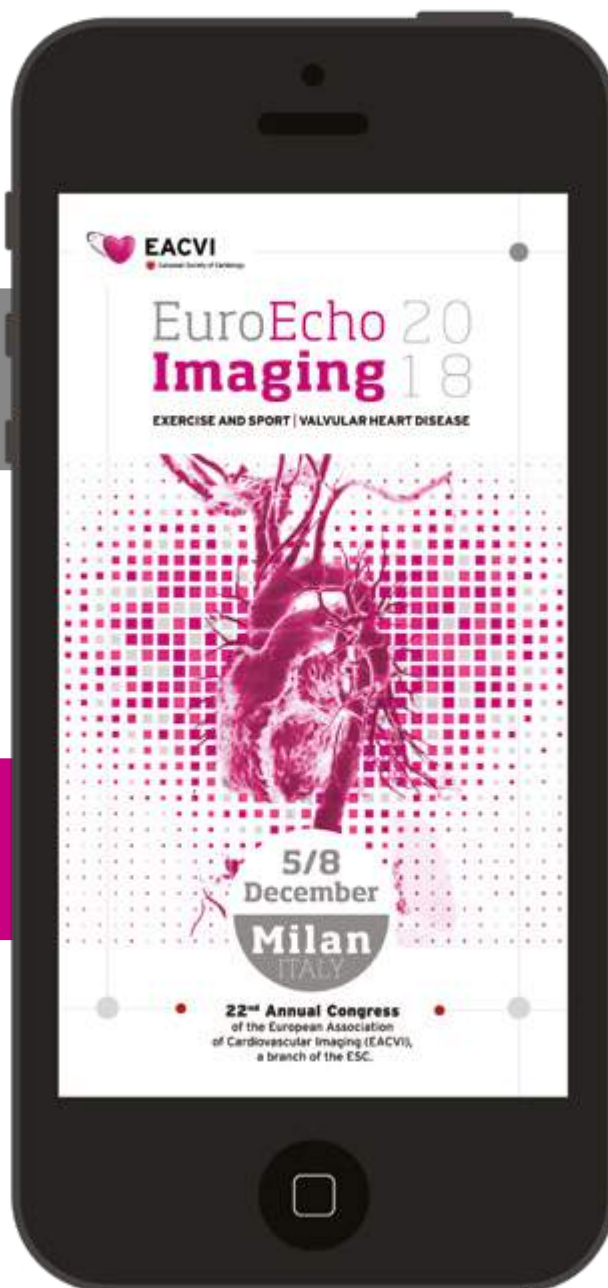
SEARCH
by keywords

CREATE
your personal
programme

GET
latest news

ACCESS
map,
sessions...

VOTE
and ask
questions

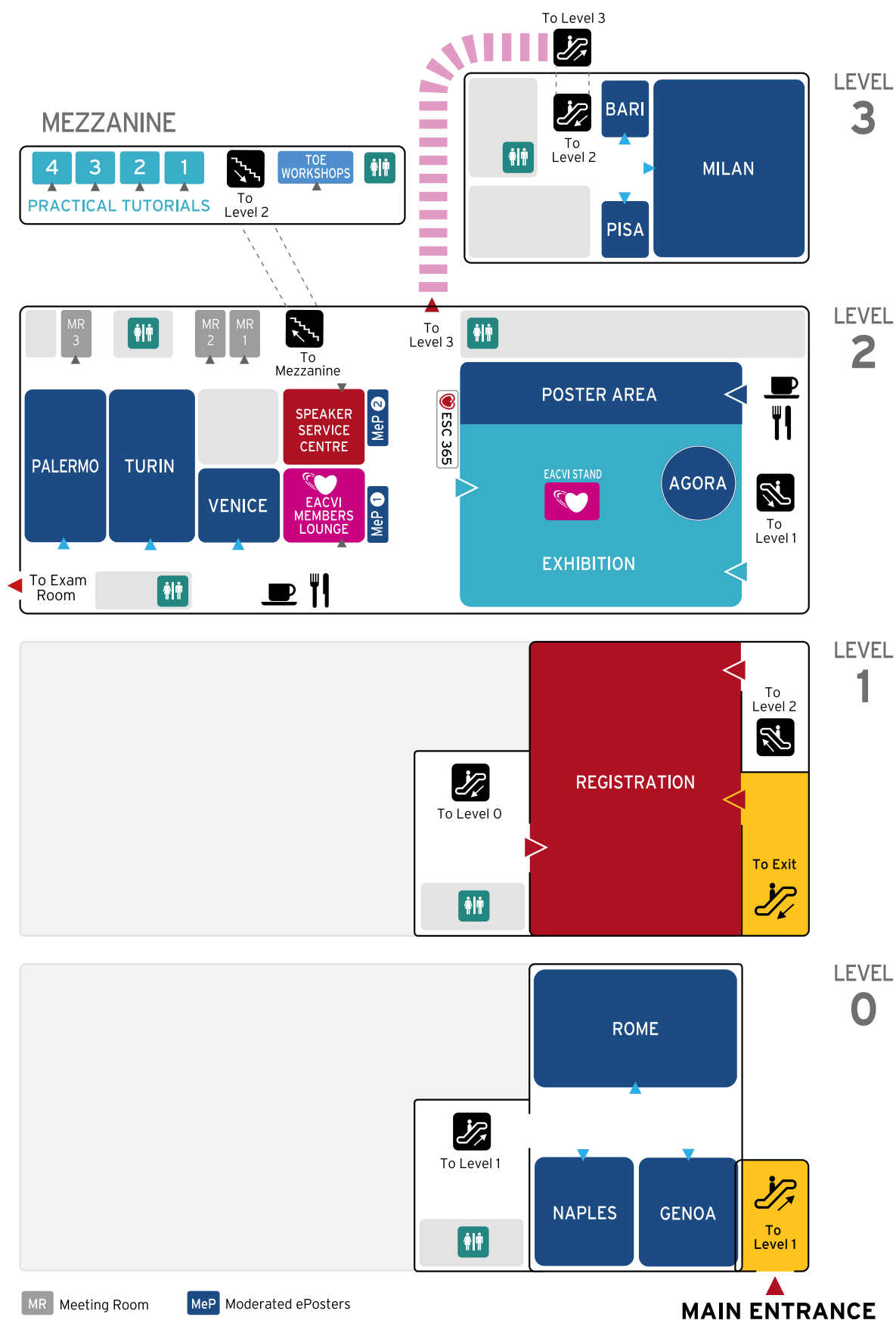


Search for 'ESC Congresses' or 'EuroEcho'
in App Store® / Google play

EuroEcho-Imaging 2018 is now a part of ESC Congresses app.
Find all our congresses on one app.

www.escardio.org/EACVI

Building Overview



Welcome Address

Welcome to EuroEcho-Imaging 2018 in Milan, Italy.

EuroEcho-Imaging is the flagship of the European Association of Cardiovascular Imaging (EACVI) and the world's largest cardiovascular imaging congress.

This year's main themes will be **valvular heart disease & exercise and sport**.

The aim of EuroEcho-Imaging will be to create an exciting forum, in which both clinicians and scientists can present and discuss **the most up-to-date research and clinical findings** on the broader spectrum of **echocardiography alongside with the other cardiovascular imaging modalities**. Cardiologists, physicians from other specialties and imagers who use these cardiac and vascular imaging techniques will interact to discuss how to ideally use all the capabilities offered by these techniques and how to further develop them in the near future.

An educational track will run throughout the congress, featuring several specifically designed courses and sessions. Young cardiologists and researchers will be stimulated and supported through the **two Young Investigator Award competitions** (clinical and basic science).

Also, dedicated initiatives will reward the **best original research**.

However, EuroEcho-Imaging is more than just education and science. It is also a fantastic opportunity to meet the greatest worldwide experts in cardiovascular imaging, to exchange ideas and projects with colleagues who share the same clinical or scientific interest coming from all over the world.

EuroEcho-Imaging 2017 in Lisbon was a record-breaking edition in terms of attendance and abstracts/clinical cases presented, with a great overall feedback from participants.

Thank you for being with us in Milan, we look forward to seeing you in the coming days.



Prof. Bogdan A. Popescu
EACVI President 2016-2018



Prof. Erwan Donal and Prof. Thor Edvardsen
EuroEcho-Imaging Scientific Chairpersons



EACVI
European Association of
Cardiovascular Imaging

JOIN THE **EACVI COMMUNITY**

Become a member



15% OFF*
Silver Membership
during the congress

**See you at
the EACVI Stand**

*Conditions apply.

Discover more

More discounts, more learning opportunities.
Combine EACVI Silver Membership with
ESC Professional Membership.

www.escardio.org/membership



ESC

European Society
of Cardiology

EuroEcho-Imaging 2018 Committees

EXECUTIVE BOARD MEMBERS

Prof. Bogdan A. Popescu, FESC
(Bucharest, RO)

EACVI President 2016-2018

Prof. Thor Edvardsen, FESC
(Oslo, NO)

EACVI President 2018-2020

Prof. Gilbert Habib, FESC
(Marseille, FR)

EACVI Past-President 2016-2018

SCIENTIFIC PROGRAMME COMMITTEE

Prof. Bogdan A. Popescu, FESC (Bucharest, RO)
EACVI President 2016-2018

Prof. Erwan Donal (Rennes, FR)

Prof. Thor Edvardsen (Oslo, NO)

Scientific Programme Chairpersons

Dr. Julien Magne (Limoges, FR)

Scientific Programme Director

Dr. Chiara Bucciarelli-Ducci (Bristol, UK)

Chair CMR Section of the EACVI 2016-2018

Dr. Oliver Gaemperli (Zurich, CH)

*Chair Cardiac CT & Nuclear Cardiology
Section of the EACVI 2016-2018*

SCIENTIFIC COMMITTEE ADVISORS

Prof. Luigi Paolo Badano (IT)
Dr. Frank A. Benedetto (IT)
Dr. Tara Bharucha (UK)
Prof. Werner Budts (BE)
Dr. Matteo Cameli (IT)
Prof. Nuno Cardim (PT)
Prof. Bernard Cosyns (BE)
Prof. Cetin Erol (TR)
Prof. Frank Arnold Flachskampf (SE)
Ass. Prof. Maurizio Galderisi (IT)
Dr. Elena Galli (FR)
Dr. Alessia Gimelli (IT)
Prof. Jong-Won Ha (KR)
Prof. Gilbert Habib (FR)
Prof. Andreas Hagendorff (DE)
Dr. Lieven Herbots (BE)
Ass. Prof. Kristina Hermann Haugaa (NO)
Dr. Georgios Karatasakis (GR)
Prof. Jaroslaw Damian Kasprzak (PL)
Dr. Anastasia N Kitsiou (GR)
Prof. Patrizio Lancellotti (BE)
Dr. Noah Liel-Cohen (IL)
Dr. Owen Miller (UK)

Prof. Mark John Monaghan (UK)
Dr. Chirojit Mukherjee (DE)
Dr. Denisa Muraru (IT)
Dr. Satoshi Nakatani (JP)
Prof. Aleksandar Neskovic (RS)
Ass. Prof. Ruxandra Oana Jurcut (RO)
Dr. Mauro Pepi (IT)
Prof. Steffen Petersen (UK)
Prof. Philippe Pibarot (CA)
Prof. Luc Pierard (BE)
Dr. Vera Rigolin (US)
Prof. Leyla Elif Sade (TR)
Prof. Roxy Senior (UK)
Prof. Jadranka Separovic Hanzevacki (HR)
Dr. Marta Sitges (SP)
Dr. Alexandros Stefanidis (GR)
Dr. Martin Swaans (NL)
Prof. James D. Thomas (US)
Prof. Albert Varga (HU)
Prof. Dragos Vinereanu (RO)
Dr. Kyriakos Yiangou (CY)
Prof. Jose Luis Zamorano Gomez (SP)

Acknowledgment

The EuroEcho-Imaging 2018 scientific programme committee takes the opportunity to thank all volunteers involved in the development of this year's edition of EuroEcho-Imaging: committee members, abstract reviewers, international partners and faculty.



EACVI
European Association of
Cardiovascular Imaging

NEW!

Fellow of the **EACVI**

DISTINCTION IN CARDIOVASCULAR IMAGING



**YOUR PROFESSIONAL EXCELLENCE
DESERVES RECOGNITION**



Be a FEACVI

www.escardio.org/EACVI-fellowship

Application deadline: 30 October



ESC

European Society
of Cardiology



About the EACVI

The European Association of Cardiovascular Imaging (EACVI), a branch of the European Society of Cardiology (ESC), is a unified community gathering all imaging modalities under one entity (Echocardiography, Cardiovascular Magnetic Resonance, Nuclear Cardiology and Cardiac Computed Tomography).

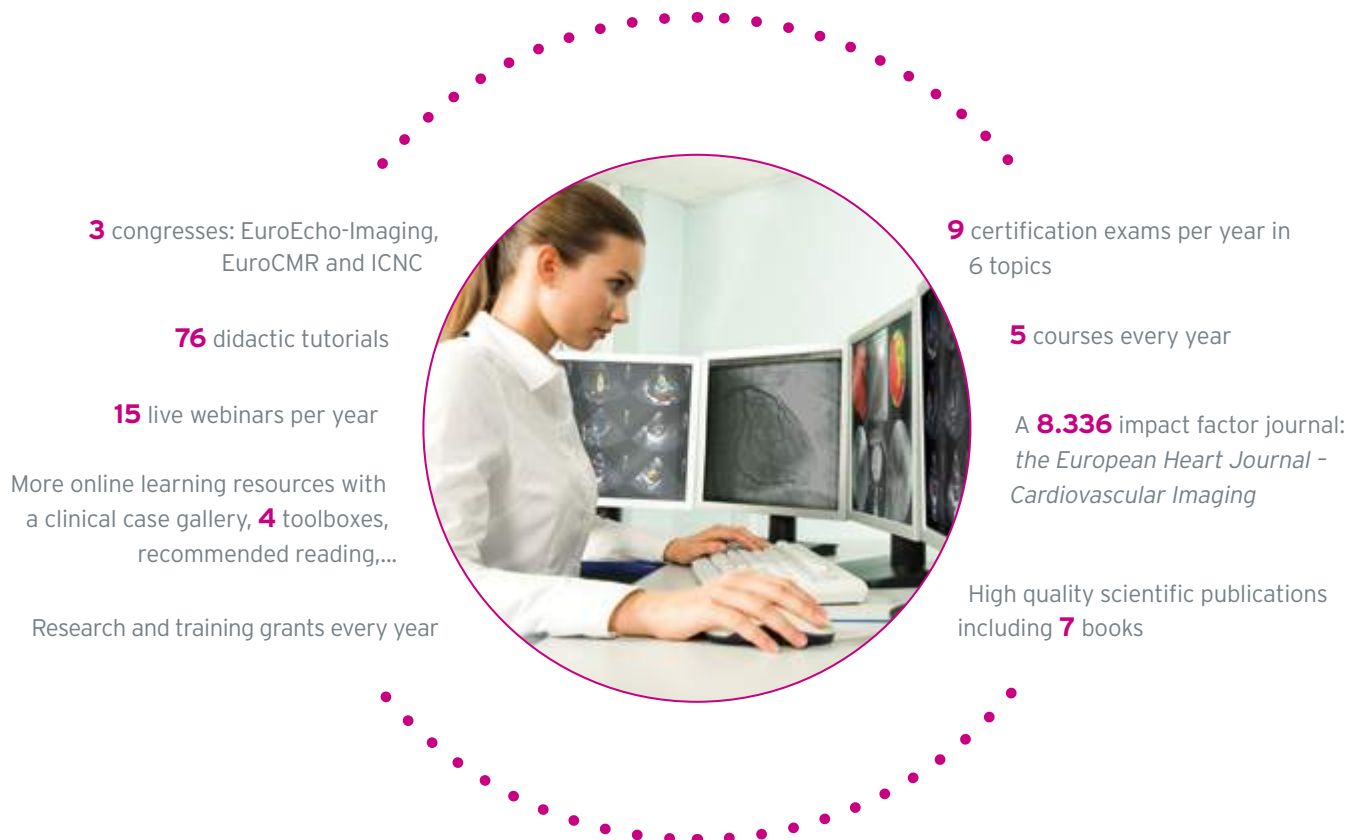
The EACVI is the world's leading network of cardiovascular imaging experts welcoming over 13,000 professionals including cardiologists, sonographers, nurses, basic scientists and allied professionals.

Our mission: 'To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging'.

● EACVI key figures

13,000 members

150 board and committee members. As experts, they create:



Visit www.escardio.org/EACVI to learn about our educational initiatives and more.

About the European Society of Cardiology (ESC)

The ESC is the world's largest organisation of healthcare professionals dedicated to fighting heart disease. We help more than 95,000 cardiologists and allied professionals from 150 countries expand the boundaries of cardiovascular medicine so people can lead longer, healthier lives. The ESC publishes scientific journals, an array of textbooks and the latest Clinical Practice Guidelines. It provides continuing medical education through webinars and classroom courses, and hosts a variety of internationally renowned scientific congresses. More info on www.escardio.org

Congress Timetable

		7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00																
		7:30 8:30 9:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30																
Wednesday 5 December	REGISTRATION																	
	SPEAKER SERVICE CENTRE																	
	POSTERS																	
	EXHIBITION																	
	PRACTICAL TUTORIALS*																	
	TEACHING COURSES		AS CB	TEACHING COURSES		SATELLITE SYMPOSIA		TEACHING COURSES		AS CB	INAUGURAL SESSION		NETWORKING COCKTAIL					
	HOW TO				MP				HOW TO									
Thursday 6 December	REGISTRATION																	
	SPEAKER SERVICE CENTRE																	
	POSTERS						LUNCH		POSTERS									
	EXHIBITION																	
	PRACTICAL TUTORIALS*																	
	SCIENTIFIC SESSIONS		AS CB	SCIENTIFIC SESSIONS		SATELLITE SYMPOSIA		SCIENTIFIC SESSIONS		AS CB	SCIENTIFIC SESSIONS							
	MP HOW TO				MP				MP HOW TO									
Friday 7 December	REGISTRATION																	
	SPEAKER SERVICE CENTRE																	
	POSTERS						LUNCH		POSTERS									
	EXHIBITION																	
	PRACTICAL TUTORIALS*																	
	SCIENTIFIC SESSIONS		AS CB	SCIENTIFIC SESSIONS				SCIENTIFIC SESSIONS		AS CB	SCIENTIFIC SESSIONS		Echo@ Jeopardy		HIT ** Cocktail			
	MP HOW TO				MP				MP HOW TO									
Saturday 8 December	REGISTRATION																	
	SPEAKER SERVICE CENTRE																	
	POSTERS																	
	SCIENTIFIC SESSIONS		AS CB	SCIENTIFIC SESSIONS														
MP HOW TO																		
		7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00																
		7:30 8:30 9:30 10:30 11:30 12:30 13:30 14:30 15:30 16:30 17:30 18:30 19:30																

AS Abstract Sessions CB Coffee Breaks MP Moderated ePosters

as of 27/11/2018

*Previously known as Imaging Campus

** HIT: EACVI Heart Imager of Tomorrow

Don't Miss Sessions

WEDNESDAY 5 DECEMBER

15:30 - 16:00 **'The research in imaging in the world'** **Room AGORA**
The 2018 Young Investigator Awardees from American Society of Echocardiography and Japanese Society of Echocardiography will present their winning research.

16:00 - 18:00 **'Inaugural Session'** **Room MILAN**
Featuring the Edler Lecture from Prof. Picano on "The Renaissance of Stress Echocardiography"

THURSDAY 6 DECEMBER

10:00 - 11:00 **Young Investigator Award session - Basic Science** **Room AGORA**
A competition designed for abstract & clinical case submitters / presenters under 38 years old.

11:00 - 12:30 **Cardiac Imaging Quiz** **Room ROME**
Great Mysteries of Cardiac Imaging

15:30 - 16:00 **Young Investigator Award session - Clinical Science** **Room AGORA**
A competition designed for abstract & clinical case submitters / presenters under 38 years old

FRIDAY 7 DECEMBER

10:00 - 11:00 **EACVI General Assembly** **Room TURIN**
Updates on the latest achievements and future developments of the association. All EACVI members are welcome to attend.

10:00 - 11:00 **Meet the experts** **Room AGORA**
Highlight of the most popular webinars.

11:00 - 12:30 **Live session with the Policlinico San Donato** **Room ROME**
Live session - Adding functional evaluation to stress echocardiography: the role of cardiopulmonary exercise test

14:00 - 15:30 **EuroEcho-Imaging Honorary Lecture:** **Room GENOA**
Expanding frontiers of Echocardiography" by Prof. Picard

15:30 - 16:30 **High Tech Corner session 1** **Room AGORA**
Machine learning: trendy subject or future practice?

18:00 - 19:00 **Echo@Jeopardy** **Room MILAN**
Cardiovascular imaging quiz where 3 expert teams will compete.

SATURDAY 8 DECEMBER

08:30 - 10:00 **High Tech Corner session 2** **Room AGORA**
Virtual valve replacement: the next revolution

10:00 - 11:00 **High Tech Corner session 3** **Room AGORA**
New concepts in imaging of surgical and transcatheter valvular interventions

11:00 - 12:30 **EuroEcho-Imaging 2018 highlights** **Room ROME**
Get an overview and take-home messages from this year's congress

Congress Information



CERTIFICATES

For attendance - available from the registration desks as of Friday 7 December

For presentation - available for abstract presenters at the poster assistance desk in the poster area



CONTINUING MEDICAL EDUCATION

The EuroEcho-Imaging 2018, Milan, Italy, 05/12/2018-08/12/2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 21 European CME credits (ECMEC@s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.



Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™.

Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

ECMEC@s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.



INTERNET CONNECTION

Free wifi is available at the congress centre. However please note that connectivity is subject to the volume of users.

Wifi name: eei-congress

Wifi password: eei-congress



INTERNET CORNER

Computer with internet access are located in the exhibition.



INFO POINTS

For any other information please address the organisers at the registration.



SECURITY

Please ensure your badge is visible at all times and comply with security controls that you may be subject to within the congress venue.



EACVI MEMBERS' LOUNGE

The lounge is an exclusive area located near the exhibition at level 2 where EACVI Silver and Gold Members are invited to enjoy breaks and refreshments.

Become a member at the EACVI / ESC stand and get 15% off* Silver Membership

**Conditions apply*

NEW



ESC 365

All EuroEcho-Imaging congress resources in one online library

Slide sets

Videos in replay

Abstracts & reports



See for yourself

- Come by the ESC 365 Stand for a personal demonstration
- or visit www.escardio.org/365

**Enhanced access
for EACVI Members**



Bristol-Myers Squibb



NOVARTIS



EACVI

European Association of
Cardiovascular Imaging



European Society of Cardiology

ESC 365 is supported by Bayer, Boehringer Ingelheim, Bristol-Myers Squibb and Pfizer Alliance and Novartis Pharma AG in the form of an educational grant.

Industry at EuroEcho-Imaging 2018

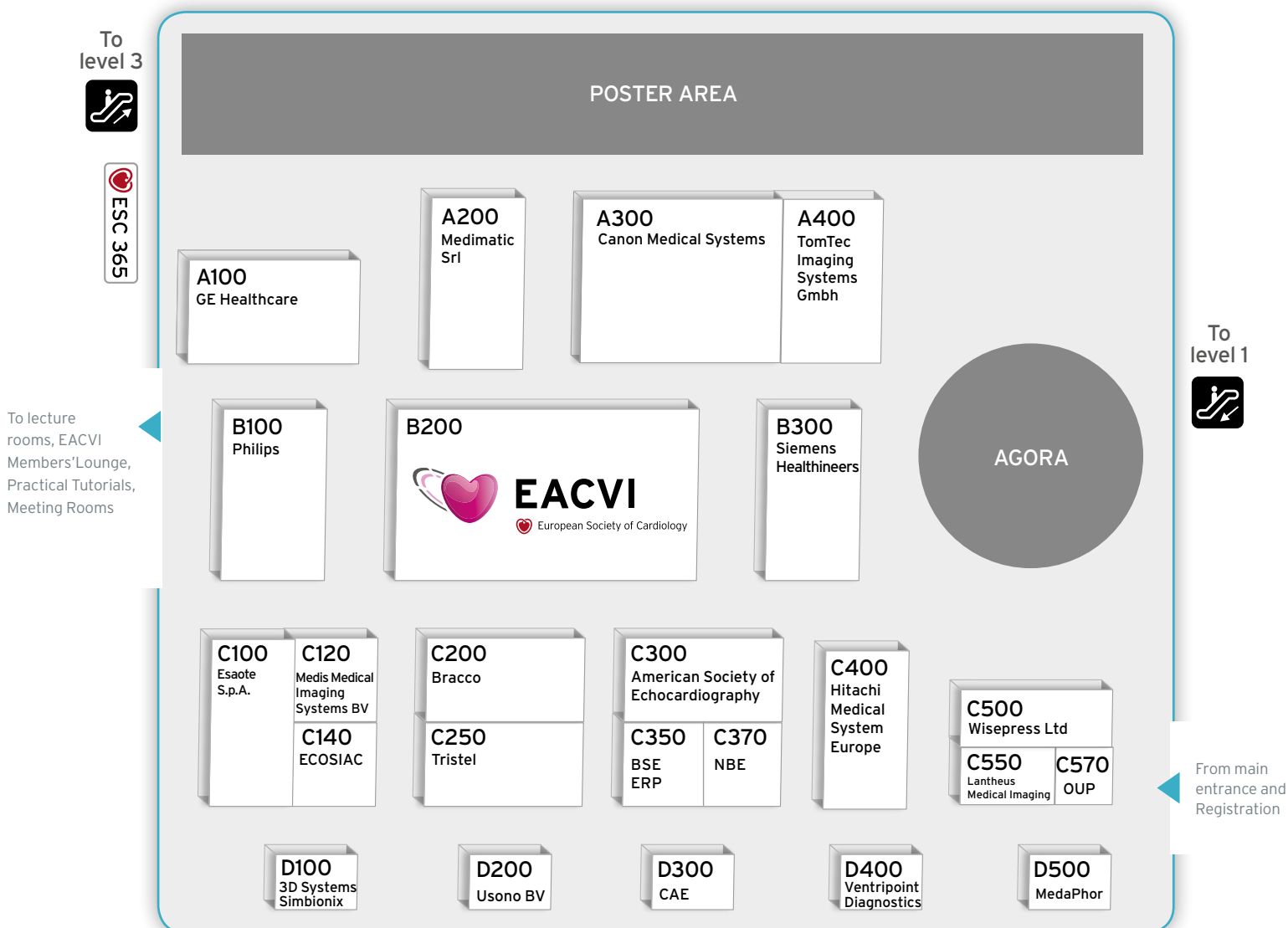


The fight against cardiovascular disease is a shared mission.
Our industry partners offer a rich educational programme to delegates throughout the congress.
Discover the wide variety of activities from educational sessions to stand activities.

Exhibition

The exhibition is an integral part of the congress. The exhibition provides delegates with the opportunity to exchange with key industry experts on critical areas of development and research in cardiovascular products and therapies. The exhibition will be a central hub for scientific discussion and exchange during the congress.

LEVEL
2



ACKNOWLEDGEMENTS - Exhibitors (as of 12/11/2018)

3D Systems Healthcare.....	D100	Lantheus Medical Imaging, Inc.....	C550
American Society of Echocardiography (ASE).....	C300	MedaPhor.....	D500
Bracco.....	C200	Medimatic Srl.....	A200
British Society of Echocardiography (BSE) and Echo Research and Practice (ERP).....	C350	Medis Medical Imaging Systems BV.....	C120
CAE.....	D300	National Board of Echocardiography (NBE).....	C370
Canon Medical Systems.....	A300	Oxford University Press (OUP).....	C570
ECOSIAC (Sociedad Interamericana de Ecocardiografía e Imágenes Cardíacas).....	C140	Philips.....	B100
Esaote S.p.A.....	C100	Siemens Healthineers.....	B300
European Association of Cardiovascular Imaging (EACVI) and European Society of Cardiology (ESC).....	B200	TOMTEC IMAGING SYSTEMS GMBH.....	A400
GE Healthcare.....	A100	Tristel.....	C250
Hitachi Medical Systems Europe.....	C400	Usono BV.....	D200
		Ventripoint Diagnostics.....	D400
		Wisepress Ltd.....	C500

Satellite Symposia

Delegates are cordially invited to attend a series of Satellite Symposia included in the EuroEcho-Imaging 2018 Scientific Programme.

These sessions will offer pertinent data on the latest scientific development in cardiovascular imaging from the industry.

- Bracco
- Canon Medical Systems Europe
- Edwards Lifesciences
- GE Healthcare
- Philips Healthcare

Practical Tutorials

(previously known as Imaging Campus)

The Practical Tutorials offers delegates a unique opportunity for practical training and hands-on learning from industry experts in an intimate setting, allowing them to address specific issues essential to your daily practice.

Sign up now at the sponsor's booth or directly in front of the Practical Tutorials room.

Seats are limited!

- PHILIPS
- Siemens Healthineers
- TOMTEC IMAGING SYSTEMS GMBH



For further information, please refer to the Scientific Programme daily sections, or check the Scientific Programme & Planner on the congress webpage or download the Mobile App.

Sponsorship (as of 12/11/2018)

The ESC gratefully acknowledges the following organisations which have contributed to the success of EuroEcho-Imaging 2018 via educational grant, support of delegate services materials and other sponsorship opportunities.

- | | |
|------------------------|------------------------|
| • Edwards Lifesciences | • SERVIER |
| • GE Healthcare | • Siemens Healthineers |
| • Philips | |

• Practical Tutorials

Devices, Imaging, Clinical Practice

Dedicated programmes from experts on the practical application of knowledge and skills

Sign up now in the Practical Tutorials room
or at the sponsor's stand

Places are limited

PRACTICAL TUTORIALS

PRACTICAL TUTORIALS 1 ROOM

Sponsored by Siemens Healthineers

10:00 - 11:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): G. Trocino (Biaassono, IT)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

14:00 - 15:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): N. Merke (Berlin, DE)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non invasively, accurately, reproducibly and quickly.

PRACTICAL TUTORIALS 2 ROOM

Sponsored by TOMTEC IMAGING SYSTEMS GMBH

10:30 - 12:00

PRACTICAL TUTORIALS 2

Echocardiographic characteristics of cardiac amyloidosis

Chairperson(s): C. Morbach (Wuerzburg, DE)

Learning objectives: To recognize the typical phenotype of cardiac amyloidosis and to differentiate cardiac amyloidosis from other causes of increased left ventricular wall thickness

16:00 - 17:30

PRACTICAL TUTORIALS 2

Assesment of mitral valve (pre and post op) and introcution to assessment of TAVR using vendor independent software

Chairperson(s): C.M. Mukherjee (Karlsruhe, DE)

Learning objectives:

- Assess the pathology of pre and post operative pathological findings of the mitral valve
- TAVR: Guiding tool, pre operative measurements and their values to determine proper valve implantation
- Guidance through vendor independent software to determine preoperative pathological findings and postoperative assessment.

PRACTICAL TUTORIALS 4 ROOM

Sponsored by PHILIPS

09:30 - 10:30

PRACTICAL TUTORIALS 4

Latest generation echo fusion imaging for mitral valve interventions, a practical approach

Chairperson(s): P. Biaggi (Zurich, CH)

This interventional cardiology oriented hands-on session will discuss the latest generation echo fusion imaging for mitral valve interventions.

11:00 - 12:00

PRACTICAL TUTORIALS 4

Latest generation echo fusion imaging for mitral valve interventions, a practical approach

Chairperson(s): P. Biaggi (Zurich, CH)

This interventional cardiology oriented hands-on session will discuss the latest generation echo fusion imaging for mitral valve interventions.

13:00 - 14:30

PRACTICAL TUTORIALS 4

Echo and multimodality workflows in the cardiovascular image and information management solution

Chairperson(s): T. Buck (Mettmann, DE)

Learning objectives:

In this session a real patient case study will be presented to take you through the full clinical workflow. You will be able to acquire practical experience by using our solution while discovering the true advantages of Philips Cardiology Information Management solution.

15:00 - 16:00

PRACTICAL TUTORIALS 4

Revealing new insights through electronic plane rotation and adjustable multiplane imaging

Chairperson(s): A. Van Den Bosch (Rotterdam, NL)

Learning objectives:

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

16:30 - 17:30

PRACTICAL TUTORIALS 4

Automated global longitudinal strain, why, how and when should it be performed?

Chairperson(s): A. Apor (Budapest, HU)

Learning objectives:

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

PRACTICAL TUTORIALS 1 ROOM

Sponsored by Siemens Healthineers

09:00 - 10:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): F. Knebel (Berlin, DE)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

12:00 - 13:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): N. Merke (Berlin, DE)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non invasively, accurately, reproducibly and quickly.

16:00 - 17:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): G. Trocino (Biaassono, IT)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume noninvasively, accurately, reproducibly and quickly.

PRACTICAL TUTORIALS 2 ROOM

Sponsored by TOMTEC IMAGING SYSTEMS GMBH

09:00 - 10:30

PRACTICAL TUTORIALS 2

Clinical usefulness of "fully automated 2D strain analysis"

Chairperson(s): M. Takeuchi (Kitakyushu, JP)

Learning objectives:

- Know how to use fully automated 2D strain software,
- To apply this technique in several cardiac pathologies, and
- To learn no observer variabilities, if you do not perform any editing.

PRACTICAL TUTORIALS 2 (CONTINUED)

Sponsored by TOMTEC IMAGING SYSTEMS GMBH

13:00 - 14:30

PRACTICAL TUTORIALS 2

Current echocardiographic evaluation of the right ventricle**Chairperson(s): J. D. Kasprzak (Lodz, PL)**

Learning objectives: This workshop will provide practical guidance on how to assess the right ventricle for normal and diseased pathologies. Participants will be shown correct echocardiographic images for proper analysis. TOMTEC's vendor neutral Cardiac Measurement and 4D-RV analysis packages will be used for this workshop.

16:00 - 17:30

PRACTICAL TUTORIALS 2

Clinical cases in the differential diagnosis between athlete's heart and cardiac disease**Chairperson(s): S. Caselli (Zurich, CH)**

Learning objectives: The heart of an athlete's is characterized by increased chamber size and mass to accomplish the high cardiac output and increased physical performance during exercise.

In a small number of subjects however, it may be difficult to distinguish between benign cardiac adaptations or early manifestation of a cardiovascular disease.

This distinction is however extremely important since cardiac diseases may be responsible for sport-related sudden cardiac death.

Cardiac imaging plays a major role in this differential diagnosis and specific criteria have been proposed to recognize cardiac anomalies in athletes.

**PRACTICAL TUTORIALS 4
ROOM**

Sponsored by PHILIPS

09:00 - 10:00

PRACTICAL TUTORIALS 4

Automated global longitudinal strain, why, how and when should it be performed?**Chairperson(s): A. Apor (Budapest, HU)****Learning objectives:**

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings.

10:25 - 11:25

PRACTICAL TUTORIALS 4

Is echo ready for the comprehensive analysis of the left heart chambers?**Chairperson(s): P. Scislo (Warsaw, PL)****Learning objectives:**

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

PRACTICAL TUTORIALS 4 (CONTINUED)

Sponsored by PHILIPS

11:50 - 12:50

PRACTICAL TUTORIALS 4

Revealing new insights through electronic plane rotation and adjustable multiplane imaging

Chairperson(s): A. Van Den Bosch (Rotterdam, NL)

Learning objectives:

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

13:15 - 14:40

PRACTICAL TUTORIALS 4

Echo and multi-modality workflows in the cardiovascular image and information management solution

Chairperson(s): T. Buck (Mettmann, DE)

Learning objectives:

In this session a real patient case study will be presented to take you through the full clinical workflow. You will be able to acquire practical experience by using our solution while discovering the true advantages of Philips Cardiology Information Management solution.

15:05 - 16:05

PRACTICAL TUTORIALS 4

Automated global longitudinal strain, why, how and when should it be performed?

Chairperson(s): F. Delelis (Lille, FR)

Learning objectives:

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

16:30 - 17:30

PRACTICAL TUTORIALS 4

Photorealistic visualization, the heart like you've never seen it before

Chairperson(s): P. Scislo (Warsaw, PL)

Learning objectives:

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

PRACTICAL TUTORIALS 1
ROOM

Sponsored by Siemens Healthineers

09:00 - 10:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): G. Trocino (Biaassono, IT)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

12:00 - 13:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography

Chairperson(s): N. Merke (Berlin, DE)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

16:00 - 17:30

PRACTICAL TUTORIALS 1

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Chairperson(s): F. Knebel (Berlin, DE)

Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography.

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

PRACTICAL TUTORIALS 2
ROOM

Sponsored by TOMTEC IMAGING SYSTEMS GMBH

09:00 - 10:30

PRACTICAL TUTORIALS 2

Structured reporting in congenital heart disease

Chairperson(s): L. Mertens (Toronto, CA)

Learning objectives:

- The utility of a structured reporting for congenital heart disease reporting will be reviewed.
- The impact of structured reporting on workflow will be discussed.

13:00 - 14:30

PRACTICAL TUTORIALS 2

Virtual reality in cardiac imaging: toy or tool?

Chairperson(s): B. Mumm (Unterschleissheim, DE)

Learning objectives: This workshop will give a comprehensive overview about the use of Virtual Reality (VR) and Augmented Reality (AR) in cardiac imaging and especially in 3D echocardiography. Participants will understand the potential clinical use and future opportunities of VR/AR technology.

The workshop will be done in 3 parts: 1. Introduction talk; 2. Live demonstration on VR; 3. Get your own experience

PRACTICAL TUTORIALS 4
ROOM

Sponsored by PHILIPS

09:00 - 10:00

PRACTICAL TUTORIALS 4

Is echo ready for the comprehensive analysis of the left heart chambers?**Chairperson(s): P. Scislo (Warsaw, PL)****Learning objectives:**

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

Sponsored by PHILIPS

10:25 - 11:25

PRACTICAL TUTORIALS 4

Automated global longitudinal strain why, how and when should it be performed?**Chairperson(s): S. Marechaux (Lomme, FR)****Learning objectives:**

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

Sponsored by PHILIPS and Abbott

11:50 - 12:50

PRACTICAL TUTORIALS 4

Percutaneous mitral valve repair therapy : from screening to procedure and from technical to clinical**Chairperson(s): R. S. Von Bardeleben (Mainz, DE), F. Kreidel (Hamburg, DE)****Learning objectives:** You will learn about the percutaneous mitral valve repair therapy from screening to procedure and from technical to clinical.

Sponsored by PHILIPS and Abbott

13:15 - 14:15

PRACTICAL TUTORIALS 4

Percutaneous mitral valve repair therapy : from screening to procedure and from technical to clinical.**Chairperson(s): R. S. Von Bardeleben (Mainz, DE), F. Kreidel (Hamburg, DE)****Learning objectives:** You will learn about the percutaneous mitral valve repair therapy from screening to procedure and from technical to clinical.

Sponsored by PHILIPS

14:40 - 15:40

PRACTICAL TUTORIALS 4

Photorealistic visualization, the heart like you've never seen it before**Chairperson(s): P. Scislo (Warsaw, PL)****Learning objectives:**

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

Sponsored by PHILIPS

16:05 - 17:05

PRACTICAL TUTORIALS 4

Automated global longitudinal strain why, how and when should it be performed?

Chairperson(s): F. Delelis (Lille, FR)

Learning objectives:

- See the benefits of fully automatic 3D echo based left heart volumetry in clinical routine
- Explore photorealistic visualization of the heart
- Appreciate the value of electronic plane rotation and adjustable multiplane imaging in clinical practice
- Perform automatic strain assessment and discuss your findings

Wednesday 5 December



- > Browse the most up-to-date scientific programme in the EuroEcho-Imaging Mobile App



- > Missed a session? Consult videos, slides sets, abstracts and ESC TV interviews on the NEW ESC 365
www.escardio.org/365



- > Tweet about your favourite sessions **#EuroEcho**

INAUGURAL SESSION

Chairperson(s): B. A. Popescu (Bucharest, RO); T. Edvardsen (Oslo, NO)

Welcome Address by the EACVI President.

B. A. Popescu (Bucharest, RO)

ESC Presidential Welcome.

S. Achenbach (Erlangen, DE)

Welcome Address by the Local Hosts.

M. Galderisi (Naples, IT); F. A. Benedetto (Reggio Calabria, IT)

Scientific programme highlights.

E. Donal (Rennes, FR)

Introduction of the Edler Lecture presenter.

B. A. Popescu (Bucharest, RO)

Edler Lecture: «The Renaissance of Stress Echocardiography»

E. Picano (Pisa, IT)

Presentation of Edler Diploma.

T. Edvardsen (Oslo, NO)

Presentation of the Nominated Honorary Member.

T. Edvardsen (Oslo, NO)

EACVI Research and Training Grant Winners.

V. Delgado (Leiden, NL)

Recognition of Certification & Accreditation.

M. Westwood (London, GB)

Results of the Elections: EACVI Board 2018-2020.

G. Habib (Marseille, FR)

Transfer of Presidency.

B. A. Popescu (Bucharest, RO)

Opening Address.

T. Edvardsen (Oslo, NO)



EACVI
European Association of
Cardiovascular Imaging

JOIN THE **EACVI COMMUNITY**

Become a member



15% OFF*
Silver Membership
during the congress

**See you at
the EACVI Stand**



*Conditions apply.

Discover more

More discounts, more learning opportunities.
Combine EACVI Silver Membership with
ESC Professional Membership.

www.escardio.org/membership



ESC

European Society
of Cardiology

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON VALVULAR HEART DISEASE (VHD)

MILAN

09:00 - 10:30

Hot topics in the diagnosis and management of aortic stenosis

Chairperson(s): **B. Iung (Paris, FR); B. Chambers (London, GB)**

09:00 ›	Mechanisms of aortic valve calcification and perspective of medical therapy. <i>M. Dweck (Edinburgh, GB)</i>	1
09:22 ›	Discordant grading in AS: when the valve area and the gradient do not fit. <i>J. Minners (Bad Krozingen, DE)</i>	2
09:45 ›	Multimodality imaging assessment of aortic stenosis. <i>M.A. Clavel (Quebec, CA)</i>	3
10:07 ›	Transcatheter aortic valve replacement (TAVR) vs. surgical aortic valve replacement (SAVR). <i>A. Latib (Milan, IT)</i>	4

11:30 - 12:30

Hot topics in the diagnosis and management of mitral regurgitation

Chairperson(s): **L. A. Pierard (Liege, BE); B. Iung (Paris 18, FR)**

11:00 ›	Pathophysiological Adaptation of the mitral valve apparatus. <i>J. Beaudoin (Quebec, CA)</i>	49
11:22 ›	Quantitation of MR. <i>R. E. Dulgheru (Liege, BE)</i>	50
11:45 ›	Risk stratification and timing of intervention in the asymptomatic patient. <i>J. Magne (Limoges, FR)</i>	51
12:07 ›	Surgical vs. transcatheter valve repair. <i>M. De Bonis (Milano, IT)</i>	52

14:00 - 15:30

Challenges in the diagnosis and management of tricuspid regurgitation

Chairperson(s): **P. Lancellotti (Liege, BE); L. D. Gillam (Morristown, US)**

14:00 ›	Mechanism of primary and secondary TR. <i>G. Van Camp (Dilbeek, BE)</i>	126
14:22 ›	Assessment of TR severity. <i>L. Badano (Padova, IT)</i>	127
14:45 ›	How to interpret and apply the guidelines? <i>J. Dreyfus (SaintDenis, FR)</i>	128
15:07 ›	Surgical vs. transcatheter valve repair. <i>F. Maisano (Zurich, CH)</i>	129

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON MYOCARDIAL STRAIN BY ECHOCARDIOGRAPHY

ROME

09:00 - 10:30

How to assess myocardial strain?

Chairperson(s): T. Kolias (Ann Arbor, US); A. S. Pearlman (Seattle, US)

09:00 ›	What is the mechanical meaning of strain?	5
	<i>J. D. Thomas (Chicago, US)</i>	
09:22 ›	How to assess left ventricular strain?	6
	<i>J. U. Voigt (Leuven, BE)</i>	
09:45 ›	When is right ventricular strain needed?	7
	<i>J. Grapsa (London, GB)</i>	
10:07 ›	Atrial strain the newcomer.	8
	<i>P. P. Sengupta (Morgantown, US)</i>	

11:00 - 12:30

What can strain add to ejection fraction?

Chairperson(s): J. D. Thomas (Chicago, US); B. A. Popescu (Bucharest, RO)

11:00 ›	In which patients should we add analyses of strain?	53
	<i>T. Edvardsen (Oslo, NO)</i>	
11:22 ›	Strain in valvular diseases what can it add?	54
	<i>E. Donal (Rennes, FR)</i>	
11:45 ›	Strain is better for risk prediction.	55
	<i>M. Desai (Cleveland, US)</i>	
12:07 ›	How to use strain to monitor cancer treatment.	56
	<i>R.O. Jurcut (Bucharest, RO)</i>	

14:00 - 15:30

Specialised use of strain

Chairperson(s): J. Gorcsan (St. Louis, US); H. Skulstad (Oslo, NO)

14:00 ›	Strain in cardiomyopathies.	130
	<i>K. H. Haugaa (Oslo, NO)</i>	
14:22 ›	Current indications and future directions in strain echocardiography.	131
	<i>T. Kolias (Ann Arbor, US)</i>	
14:45 ›	CRT Still use for strain?	132
	<i>L.E. Sade (Ankara, TR)</i>	
15:07 ›	3D vs 2D echo strain.	133
	<i>G. R. Hong (Seoul, KR)</i>	

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON STRESS ECHO

PALERMO

09:00 - 10:30

Basic course on stress echo

Chairperson(s): **F. A. Benedetto (Reggio Calabria, IT); A. Varga (Szeged, HU)**

09:00 ›	The assessment of regional wall motion: the importance of the learning curve. <i>C. Santoro (Naples, IT)</i>	9
09:22 ›	Physical stress, dobutamine, dipyridamole: how to choose the stressor. <i>R. Esposito (Frattamaggiore, IT)</i>	10
09:45 ›	Which additional measurements to wall motion? <i>I. Simova (Sofia, BG)</i>	11
10:07 ›	The meaning of biphasic response during stress. <i>A. N. Neskovic (Belgrade, RS)</i>	12

11:00 - 12:30

Myocardial contrast agents and stress echo

Chairperson(s): **P. Nihoyannopoulos (London, GB); P. Colonna (Bari, IT)**

11:00 ›	The advantages of cavity opacification by contrast agents during stress echo. <i>M. J. Monaghan (London, GB)</i>	57
11:22 ›	Detection of coronary artery disease by combined assessment of wall motion and myocardial perfusion contrast agent and perfusion stress in the clinical practice. <i>F. Rigo (Mestre Venice, IT)</i>	58
11:45 ›	Prognostic value of highdose dipyridamole stress myocardial perfusion echocardiography. <i>N. Gaibazzi (Parma, IT)</i>	59
12:07 ›	Clinical practice of contrast echocardiography : 2017 EACVI recommendations. <i>R. Senior (London, GB)</i>	60

14:00 - 15:30

Stress echo in non ischemic heart disease

Chairperson(s): **L. A. Pierard (Liege, BE); E. Picano (Pisa, IT)**

14:00 ›	Aortic stenosis. <i>J. Magne (Limoges, FR)</i>	134
14:22 ›	Mitral regurgitation. <i>R. Citro (Salerno, IT)</i>	135
14:45 ›	Heart failure. <i>Q. Ciampi (Benevento, IT)</i>	136
15:07 ›	Cardiomyopathies and exercise echocardiography. <i>R. Senior (London, GB)</i>	137

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON THREEDIMENSIONAL ECHOCARDIOGRAPHY

TURIN

09:00 - 10:30

The basics of 3D echo applied to clinical practice

Chairperson(s): **A. Hagendorff (Leipzig, DE); M. J. Monaghan (London, GB)**

09:00 ›	The physics of 3D echocardiography applied to clinical practice. <i>L. Badano (Padova, IT)</i>	13
09:22 ›	Artifacts with 3D ultrasounds. How to identify and to avoid them. <i>F. F. Faletra (Lugano, CH)</i>	14
09:45 ›	3D echo anatomy. How to avoid to get lost while cropping a 3D data set. <i>C. Bleakley (London, GB)</i>	15
10:07 ›	Principles of 3D data set quantitation applied to cardiac chambers and valves. <i>J. D. Kasprzak (Lodz, PL)</i>	16

11:00 - 12:30

The added value of 3D echo to assess patient outcome

Chairperson(s): **N. Ajmone Marsan (Leiden, NL); E. Ostfeld (Lund, SE)**

11:00 ›	Left ventricular geometry and function. <i>T. H. Marwick (Melbourne, AU)</i>	61
11:22 ›	Right ventricular geometry and function. <i>M. Takeuchi (Kitakyushu, JP)</i>	62
11:45 ›	Mitral regurgitation. <i>X. Zhou (Beijing, CN)</i>	63
12:07 ›	Any clinical role for 3D strain? <i>H.J. Nesser (Linz, AT)</i>	64

14:00 - 15:30

3D Echo for guiding structural interventions in the Cath Lab - This is how you do it

Chairperson(s): **S. Gianstefani (Pesaro, IT); V. Delgado (Leiden, NL)**

14:00 ›	Hints and tips for getting great 3D views to guide interventions. <i>F. F. Faletra (Lugano, CH)</i>	138
14:22 ›	3D Echo guided mitral Interventions. <i>J.O. Beitnes (Oslo, NO)</i>	139
14:45 ›	3D Echo can still add value to TAVI procedures. <i>M. Eskandari (London, GB)</i>	140
15:07 ›	Uncharted territory; 3D guided tricuspid interventions. <i>R. Hahn (New York, US)</i>	141

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON TRANSOESOPHAGEAL ECHOCARDIOGRAPHY (TOE)

NAPLES

09:00 - 10:30

Basic (valves and ventricle)

Chairperson(s): **M. Pepi (Milan, IT); J.L. Vanoverschelde (Brussels, BE)**

09:00 ›	Assessment of left ventricular and right ventricular function. <i>J. van der Maaten (Onnen, NL)</i>	17
09:22 ›	Mitral valve : preoperative and intraoperative assessment. <i>C.M. Mukherjee (Karlsruhe, DE)</i>	18
09:45 ›	Aorta and aortic valve: Intraoperative assessment. <i>J.L. Vanoverschelde (Brussels, BE)</i>	19
10:07 ›	Cardiac source of embolism and cardiac masses. <i>M. Pepi (Milan, IT)</i>	20

11:00 - 12:30

Intermediate (interventional and structural heart disease)

Chairperson(s): **J. Ender (Leipzig, DE); A. Rossi (Verona, IT)**

11:00 ›	TAVR: Preoperative assessment. <i>J. Ender (Leipzig, DE)</i>	65
11:22 ›	Percutaneous approach to mitral valve disease. <i>A. Rossi (Verona, IT)</i>	66
11:45 ›	Percutaneous tricuspid intervention: myth or reality? <i>E. Agricola (Milano, IT)</i>	67
12:07 ›	TAVR: Echo emergencies. <i>J. Fassel (Dresden, DE)</i>	68

14:00 - 15:30

Advanced (dilemmas)

Chairperson(s): **P. F. Wouters (Gent, BE); F. Guarracino (Pisa, IT)**

14:00 ›	Ischemic MR: repair or replace? <i>P. F. Wouters (Gent, BE)</i>	142
14:22 ›	HOCM: Intraoperative assessemnt: resect or leave it alone? <i>G. La Canna (Rodengo Saiano, IT)</i>	143
14:45 ›	Tricuspid regurgitation during mitral surgery: reapiir or leave it alone? <i>F. Guarracino (Pisa, IT)</i>	144
15:07 ›	Echo decision and sssessment for VAD/ECMO. <i>S. Bouchez (Ghent, BE)</i>	145

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON CONGENITAL HEART DISEASE (CHD)

GENOA

09:00 - 10:30

The tricuspid valve in congenital heart disease

Chairperson(s): **A. Van Den Bosch (Rotterdam, NL); J. Simpson (London, GB)**

09:00 ›	Morphology of the tricuspid valve. <i>M.R.M. Jongbloed (Leiden, NL)</i>	21
09:22 ›	How to image the triucspid valve, from foetus to adulthood. <i>X. Iriart (Pessac, FR)</i>	22
09:45 ›	Imaging Ebstein's anomaly of the tricuspid valve. <i>P. De Meester (Leuven, BE)</i>	23
10:07 ›	The tricuspid valve in hypoplastic left heart syndrome. <i>T. Bharucha (Southampton, GB)</i>	24

11:00 - 12:30

Aortic stenosis from foetus to adulthood

Chairperson(s): **W. Budts (Leuven, BE); J. Marek (London, GB)**

11:00 ›	Morphology of the aortic valve. <i>A. Crucean (Birmingham, GB)</i>	69
11:22 ›	Aortic stenosis in fetal life. <i>L. Hunter (Glasgow, GB)</i>	70
11:45 ›	Imaging aortic stenosis and borderline LV in childhood and adolescence. <i>A. Dragulescu (Toronto, CA)</i>	71
12:07 ›	Longterm followup after aortic valve interventions. <i>S. Orwat (Muenster, DE)</i>	72

14:00 - 15:30

Neonatal haemodynamics: a primer

Chairperson(s): **W. Li (London, GB); O. Miller (London, GB)**

14:00 ›	The transitional circulation: what is important? <i>J. Simpson (London, GB)</i>	146
14:22 ›	How to assess neonatal haemodynamics. <i>H. Grotenhuis (Utrecht, NL)</i>	147
14:45 ›	How to image the patent arterial duct. <i>P. Barker (Durham, US)</i>	148
15:07 ›	How to assess pulmonary hypertension in the newborn. <i>B. Bonello (London, GB)</i>	149

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSES ON CARDIOVASCULAR MAGNETIC RESONANCE (CMR) DESIGNED BOTH FOR EXPERTS AND BEGINNERS

GENOA

09:00 - 10:30

Starter Kit



Joint session with the European Society of Cardiac Radiology (ESCR)

Chairperson(s): M. Francone (Rome, IT); S. MohareemElgamal (Bristol, GB)

09:00 ›	Magnetic resonance physics made easy for cardiologist. A. Baritussio (Padova, IT)	25
09:22 ›	General cardiovascular magnetic resonance safety including tips and tricks for device scanning. A. M. G. Almeida (Lisbon, PT)	26
09:45 ›	Unexpected extracardiac findings on cardiovascular magnetic resonance. L. Natale (Rome, IT)	27
10:07 ›	Cardiovascular magnetic resonance in the guidelines: current and future indications. I. Eitel (Luebeck, DE)	28

11:00 - 12:30

Cardiovascular magnetic resonance (CMR) methods and applications

Chairperson(s): J. F. Rodriguez Palomares (Barcelona, ES); M. (Manchester, GB)

11:00 ›	CMR structural and functional assessment of cardiac chambers. A. M. Maceira Gonzalez (Valencia, ES)	73
11:22 ›	CMR tissue characterisation: the virtual biopsy? B. L. M. Gerber (WoluweSt. Lambert, BE)	74
11:45 ›	Comprehensive CMR assessment of valve structure and function. E.R. Valsangiacomo Buechel (Zurich, CH)	75
12:07 ›	CMR methods and applications: a glance into the future. F. Muehlberg (Berlin, DE)	76

14:00 - 15:30

Clinical applications of cardiac magnetic resonance (CMR)

Chairperson(s): S. E. Petersen (London, GB); N. Cardim (Lisbon, PT)

14:00 ›	CMR in ischaemia assessment. R.M. Manka (Zurich, CH)	150
14:22 ›	CMR in heart failure assessment. R. Nijveldt (Amsterdam, NL)	151
14:45 ›	CMR in inherited cardiomyopathies. J. Moon (London, GB)	152
15:07 ›	CMR in myocardial inflammation. B. L. M. Gerber (WoluweSt. Lambert, BE)	153

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSES ON CARDIAC COMPUTED TOMOGRAPHY

BARI

09:00 - 10:30

Basic principles and applications

Chairperson(s): **M. Marwan (Erlangen, DE)**

09:00 ›	Principles of cardiac CT: from photons to pictures. <i>A. Rossi (Rotterdam, NL)</i>	29
09:22 ›	Scan protocols: maximum quality, minimal dose. <i>M. Marwan (Erlangen, DE)</i>	30
09:45 ›	Cardiac Computed Tomography calcium scoring. <i>G. Pontone (Milan, IT)</i>	31
10:07 ›	Coronary CT angiography. <i>M.H. Al Mallah (Pearland, US)</i>	32

11:00 - 12:30

Advanced Techniques 1

Chairperson(s): **M.H. Al Mallah (Pearland, US); O. Gaemperli (Zurich, CH)**

11:00 ›	Complex coronary disease, stents and grafts. <i>P. MaurovichHorvat (Budapest, HU)</i>	77
11:22 ›	Myocardial infarction, perfusion and CTbased FFR. <i>G. Pontone (Milan, IT)</i>	78
11:45 ›	Plaque imaging for risk predictions. <i>M. Marwan (Erlangen, DE)</i>	79
12:07 ›	Hybrid imaging. <i>O. Gaemperli (Zurich, CH)</i>	80

14:00 - 15:30

Advanced Techniques 2

Chairperson(s): **P. MaurovichHorvat (Budapest, HU); G. Pontone (Milan, IT)**

14:00 ›	Acute chest pain and other emergencies. <i>A. Dedic (Rotterdam, NL)</i>	154
14:22 ›	Valvular heart disease. <i>M. Dweck (Edinburgh, GB)</i>	155
14:45 ›	Congenital conditions in kids and grownups. <i>S. MohareemElgamal (Bristol, GB)</i>	156
15:07 ›	Cardiomyopathies, aortic disease. <i>M. Marwan (Erlangen, DE)</i>	157

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON NUCLEAR CARDIOLOGY (NC)

PISA

09:00 - 10:30

Nuclear imaging for cardiologists: basic principles

Chairperson(s): S. R. Underwood (London, GB); A. Kitsiou (Athens, GR)

09:00 ›	Physics, radiotracers, Instrumentation. <i>H.J. Verberne (Amsterdam, NL)</i>	33
09:22 ›	Image interpretation: qualitative and quantitative analysis. <i>E. Reyes (London, GB)</i>	34
09:45 ›	Absolute MBF: how, why, when. <i>H. J. Ukkonen (Turku, FI)</i>	35
10:07 ›	How to create a clinically meaningful report. <i>A. Gimelli (Pisa, IT)</i>	36

11:00 - 12:30

Nuclear cardiology in ischemic heart disease

Chairperson(s): C. Anagnostopoulos (Athens, GR); S. R. Underwood (London, GB)

11:00 ›	Management of cardiac artery disease: diagnosis and clinical decision making. <i>R.R. Buechel (Zurich, CH)</i>	81
11:22 ›	Management of cardiac artery disease: Interactive clinical cases. <i>D. Neglia (Pisa, IT)</i>	82
11:45 ›	Heart failure: viability and innervation. <i>A. J. H. A. Scholte (Leiden, NL)</i>	83
12:07 ›	Heart failure: Interactive clinical cases. <i>K. Wechalekar (London, GB)</i>	84

14:00 - 15:30

Nuclear cardiology in myocardial and vascular disease

Chairperson(s): M.H. Al Mallah (Pearland, US); A. Kitsiou (Athens, GR)

14:00 ›	Cardiomyopathies: diagnosis, risk stratification, treatment. <i>A. J. H. A. Scholte (Leiden, NL)</i>	158
14:22 ›	Myocardial inflammation and infiltration. <i>F. Hyafil (Paris, FR)</i>	159
14:45 ›	Radionuclide imaging in IE/CDRIE: diagnosis, treatment. <i>P. A. Erba (Pisa, IT)</i>	160
15:07 ›	Nuclear cardiology in arrhythmias. <i>R. Liga (Pisa, IT)</i>	161

09:00 - 10:30

RAPID FIRE ABSTRACTS

AGORA

Clinical practice and stress echo in 2018

Fast paced and interactive session with key messages of 10 abstracts.

Rapid Fire Abstracts session = Oral Communication

Chairperson(s): L. Galiuto (Rome, IT); S. Spina (Ramos Mejia, AR)

- 09:00 › Panel of experts: 37
G. Agoston (Szeged, HU); F.B. Sozzi (Milan, IT)
- 09:00 › Prognostic value of 2Dspeckle tracking during dobutamine stress echocardiography in patients with suspected or known coronary artery disease. 38
C. M. Van De Heyning, H. Heuten, B. Ectors, E. De Bliek, V. Vandermotte, H. Heidbuchel, B. Shivalkar (Antwerp, BE)
- 09:09 › The value of peak ejection fraction, wall motion score index, global longitudinal strain and force to predict coronary angiographic SYNTAX and GENSINI score during dobutamine stress echocardiography. 39
K. WierzbowskaDrabik, E. Picano, M. Simiera, M. Plewka, R. Krecki, J.Z. Peruga, J.D. Kasprzak (Lodz, PL; Pisa, IT)
- 09:18 › Exercise worsening of electromechanical disturbances: a potential predictor of arrhythmia in long QT syndrome. 40
D. Charisopoulou, G. Koulaouzidis, A. Rydberg, M.Y. Henein (Umea, SE)
- 09:27 › The relative prognostic value of different indices of global left ventricular function during stress echocardiography: the bright side of the force. 41
T. Bombardini, D. Morrone, A. Huqi, Q. Ciampi, M.F. Costantino, E. Picano (Pisa, Viareggio, Benevento and Potenza, IT)
- 09:36 › Biventricular reserve during exercise is impaired in patients with diastolic dysfunction at rest. 42
M. Claeys, T. Petit, A. La Gerche, J.U. Voigt, P. Claus, M. Delcroix, S. Janssens, G. Claessen, R. Willems (Leuven, BE; Melbourne, AU)
- 09:45 › Longterm prognosis of patients with at least moderate functional ischemic mitral regurgitation, qualified for cardiosurgical treatment based on stress echocardiography. 43
B. PrzybyszZdunek, J. Kochanowski, R. Piatkowski, P. Scislo, M. Marchel, G. Opolski (Warsaw and warsaw, PL)
- 09:54 › Tricuspid regurgitant velocity and pulmonary flow acceleration time for estimating pulmonary pressure during exercise stress echocardiography. 44
K. WierzbowskaDrabik, E. Picano, E. Bossone, Q. Ciampi, P. Lipiec, J.D. Kasprzak (Lodz, PL; Pisa, Salerno and Benevento, IT)
- 10:03 › The acute and chronic effects of cardiac resynchronization therapy on exercise induced pulmonary hypertension and right ventriculararterial coupling. 45
P. Martens, F.H. Verbrugge, P.B. Bertrand, D. Verhaert, P. Vandervoort, M. Dupont, W.H. Tang, S. Janssens, W. Mullens (Genk and Leuven, BE; Cleveland, US)
- 10:12 › Stress echo after repaired tetralogy of fallot. 46
G. Scognamiglio, A. D'andrea, G. Di Salvo, F. Del Gaizo, M. Dekleva, C. Carpeggiani, Q. Ciampi, E. Picano (Naples, Pisa and Benevento, IT; London, GB; Belgrade, RS)
- 10:21 › Coronary microvascular disease in women: a diagnostic challenge. myocardial contrast perfusion stress echocardiography as a diagnostic tool. 47
J. R. Petersen, P. Bhardwaj, T.S. Joergensen, M.L. Nepper, J.P. Thygesen, G.G. Fornitz (Slagelse and Copenhagen, DK)

10:30 - 11:00

HOW-TO SESSION

ROME

How to assess regurgitation severity

Chairperson(s): M. Henein (Umea, SE)

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

- 10:30 › Presenter: 48
D. Morrone (Firenze, IT)

11:00 - 12:30 CLINICAL CASES AGORA

Multimodality imaging: see that case at least once!
Chairperson(s): P. PerroneFilardi (Naples, IT); F. Asch (Washington, US)

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience.

The main objective of the session is to learn from challenging clinical case scenarios.

11:00 >	Panel of experts: M. Swaminathan (Durham, US); C. Van De Heyning (Antwerpen, BE)	85
11:00 >	Mycotic coronary aneurysm complicated by left ventricular pseudoaneurysm after everolimuseluting stent implantation. P.J. Grilo Diogo, H. Nascimento, M. Paiva, C. Sousa, P. Almeida, J. Rodrigues, S. Amorim, M. Vasconcelos, R. Pinto, R.A. Rodrigues, F. Macedo, M.J. Maciel (Porto, PT)	86
11:09 >	Giant aortic aneurysm as complication of idiopathic aortitis. E. A. Khalifa, G. Abushahba, S. Helmy, A. N. Ghareep, M. Alkuwari (Doha, QA)	87
11:18 >	Recurrent pagetschroetter syndrome complicated by chylous pericardial tamponade and superior vena cava syndrome in a young male patient. G. Fady, S. Rajdev, A. Mohan, F. Albakshy (Al Ain and Abu Dhabi, AE)	88
11:27 >	Blood cyst of mitral valve in an elderly patient: a multimodalecho approach. A.C. Antonello Cuccaro, S.F. Sara Facetti, E.M. Emilio Miglierina, G.C. Giuseppe Calveri, R.D.P. Roberto De Ponti (Varese, IT)	89
11:36 >	Cardiac tamponade as a complication of pancreaticopericardial and biliarypericardial fistulas. M.S.F. SikoraFrac, M. Referowska, D. Winek, B. Ramotowski, E. PilichowskaPaszkiet, T. Slomski, K. Smarz, A. Budaj, P. Kokowicz (Warsaw, PL)	90
11:45 >	Traumatic aortic arch aneurysm 22 years after a car accident. A. Chiampan, L. Lanzoni, S. Bulgari, C. Dugo, S. Bonapace, A. Cecchetto, C. Ciccio', L. Garriboli, E. Barbieri (NegrarVerona, IT)	91
11:54 >	Recurrent primary pericardial synovial sarcoma: rare and unfortunately fatal. R.M. Abayazeed, M. Elwany, S. Elfawal, M. Mokhtar, M.A. AbdelHay (Alexandria, EG)	92
12:03 >	Cardiac involvement in the setting of multiorgan affection: vasculitis? M. Hassan Abdelnabi, N. Eshak, K. Ziada, A. Almaghraby, N. Morsi, A. Elmoughazy, Y. Aly, A. Gomaa, Y. Saleh, E. El Sharkawy (Alexandria, EG)	93
12:12 >	A strange etiology of acute pericarditis. M. Codina, L. Ruiz Gomez, N. Garcia Ibarrondo, A. Manzanal Rey, G. RamirezEscudero Ugalde, I. Bravo Martinez, G. Aurrekoetxea Bajeneta, C. Asla Ormaza, P. Mendoza Cuartero, R. Martinez De Bourio Uriarte, A. Arregui Lopez (Bilbao, ES)	94
12:21 >	Multimodality imaging of a primary cardiac lymphoma in an immunocompetent young man. M. Cerchiello, A. Barosi, S. Ippolito, R.S. Rossi, P. Nicolini, L. Blaco, A. Lanfranchi, S.M.L. Colombo, M. Di Biasi, P.L. Danna, M. Viecca (Milan, IT)	95

11:00 - 12:30 WORKSHOP TOE

Focus on Mitraclip
Workshop on Transoesophageal Echocardiography (TOE)
Chairperson(s): P. PerroneFilardi (Naples, IT); F. Asch (Washington, US)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

11:00 >	Presenters: M. Pepi (Milan, IT); V. Delgado (Leiden, NL)	96
---------	---	----

12:45 - 13:45

SATELLITE SYMPOSIUM

TURIN

State of the art in echocardiography imaging.

Sponsored by GE Healthcare

Chairperson(s): B. A. Popescu (Bucharest, RO)

Learning objectives: Recent advancements in software beam forming technologies have led in higher performance echo imaging. See the impact in visualization and quantification of the RV and how better and faster imaging can assist in guidance of interventional procedures.

Don't miss the opportunity to get a glimpse of the future technologies in Cardio Vascular Ultrasound that will revolutionize echo imaging in the next years

12:45 ›	RV quantification in 4D. What is the prognostic value? L. Badano (Padova, IT)	97
13:05 ›	Echo guidance in interventional procedures, today and tomorrow. R. S. Von Bardeleben (Mainz, DE)	98
13:25 ›	20 years of innovations: past, present and future. A. Lojewski (Milwaukee, US)	99

12:45 - 13:45

SATELLITE SYMPOSIUM

VENICE

Tricuspid valve disease - forgotten no more

Sponsored by Edwards Lifesciences

Chairperson(s): P. Lancellotti (Liege, BE); R. Hahn (New York, US)

Learning objectives: Raise awareness about tricuspid regurgitation in general and Cardioband Tricuspid System specifically. Educate medical community on several aspects of Tricuspid Regurgitation (TR): anatomy, imaging, discrepancies on the guidelines, need for new scale for measuring TR.

Introduce Cardioband Tricuspid System as new therapy option for patients with TR.

12:45 ›	Session objectives. R. Hahn (New York, US)	100
12:48 ›	Understanding the tricuspid valve - a surgeon's view. G. Dreyfus (Monaco, MC)	101
12:55 ›	Anatomy and morphology an imaging perspective. A.J. Berrebi (Issy Les Moulineaux, FR)	102
13:03 ›	Discussion.	103
13:06 ›	New insights from CT and echo imaging modalities. N. C. Wunderlich (Darmstadt, DE)	104
13:14 ›	Discussion.	105
13:17 ›	New definitions of severe TR. M. Garbi (London, GB)	106
13:25 ›	Discussion	107
13:28 ›	New treatment option to reduce TR R. S. Von Bardeleben (Mainz, DE)	108
13:36 ›	Discussion.	109
13:41 ›	Session evaluation and key learnings. P. Lancellotti (Liege, BE)	110

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 1

Top of the Heart Imagers of Tomorrow (HIT): the best of original research among EACVI Young Community

Chairperson(s): D. Muraru (Padua, IT); S. Mankad (Rochester, US)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 09:00 to 16:00. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45

The detrimental effects of chronic right atrial pacing on left atrial function and structure. 111

S. Deferm, P. Martens, M. Dupont, P.M. Vandervoort, W. Mullens (Genk, BE)

Augmentation of myocardial blood flow by ultrasound cavitation of microbubble contrast. 112

F. Moccetti, T. Belcik, A. Xie, M. Wu, W. Packwood, Y. Qi, J. Lindner (Lucerne, CH; Portland, US)

Transoesophageal echocardiographic planning for transcatheter mitral annuloplasty: a potential alternative to computed tomography. 113

E. Ho, S. Kuwata, A. Pozzoli, A. Ferrero, O. Cuevas, F. Nietlispach, M. Taramasso, M. Zuber, F. Maisano (Zurich, CH)

Left atrial functional parameters strongly correlate with the development of pulmonary congestion in heart failure outpatients. 114

M.H. Miglioranza, B.B. Thome, I.S.S. Debaco, L.H. Saito, D.L. Shuha, S.G. Alves, J.R. Viegas, T.J.N. Gomes, P.A.M. Cella, L. Griseli, M. Cameli (Porto Alegre, BR; Siena, IT)

The usefulness of lowdose computed tomography performed for early lung cancer detection in the assessment of aortic valve calcifications. 115

K. KleinAwerjanow, J. Fijalkowska, M. Ostrowski, E. Szurowska, W. Rzyman, M. Fijalkowski (Gdansk, PL)

Left ventricular global longitudinal strain can predict major cardiovascular events after acute coronary syndromes. 116

P.M. Araujo, S. Torres, C. Resende, A. Nunes, G. Ferreira, C. Sousa, M.J. Maciel, F. Macedo (Porto, PT)

A useful bedside biomarker other than troponin in the acute setting of myocarditis: the role of the neutrophilto lymphocyte Ratio. 117

F. Baessato, G. Vinco, G. Benfari, C. Zivelonghi, G. Puntel, L. Donazzan, C. Sandrini, A. Rossi, G. Destro, F.L. Ribichini, G. Puppini (Verona and Bolzano, IT)

Threedimensional echocardiographic evaluation of the right ventricle in patients with systemic lupus erythematosus. 118

A. Buonauro, R. Sorrentino, L. Nappi, R. Esposito, A. Lobasso, C. Santoro, A. Tufano, A. De Paulis, G. Marone, M. Galderisi (Naples, IT)

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 2

Clinical cases moderated: Cardiac magnetic resonance cases from around Europe

Chairperson(s): A. M. G. Almeida (Lisbon, PT); M. Westwood (London, GB)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 09:00 to 16:00. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

Prognosis significance of cardiac magnetic resonance left ventricular myocardial mechanics in patients with significant aortic regurgitation. 119

C. FernandezGolfín, R. HinojarBaydes, A. GonzalezGomez, A. Esteban Peris, M.A. Fernandez, G. Alonso Salinas, J.M. Monteagudo, A. Pardo Sanz, M. Abellas, A. GarciaMartin, J.J. Jimenez Nacher, J.L. ZamoranoGomez (Madrid, ES)

From health to incipient and patent hypertrophic cardiomyopathy phenotype. 120

M. Plaza Martin, R. Hinojar, A. Esteban, M. Navarro, J.J. Jimenez Nacher, S. Hernandez Jimenez, J. Ramos Jimenez, A. Lorente Ros, A. Marco Del Castillo, A. Garcia, A. Gonzalez, M.A. Fernandez, M. Pascual Izco, J.L. Zamorano Gomez, C. Fernandez Golfín (Madrid, ES)

Myocardial oedema detected by T2mapping: a key marker of recent ischemia after resuscitated sudden cardiac death. <i>G. Tzimas, S. Qanadli, O. Muller, P. Monney (Lausanne, CH)</i>	121
Unusual cardiac involvement of rosaidorfman disease. <i>B. Yaman, H. Kemal, L. Cerit, S. Usalp, H. Duygu (Nicosia, CY)</i>	122
Looking for pitfalls of stress cardiac MRI «under the bridge»: a case of an ischemic intramyocardial coronary artery course. <i>M. Mapelli, L. Fusini, M. Muratori, A. Baggiano, E. Conte, P. Gripari, F. Righini, F. De Martino, G. Pontone, G. Tamborini, A. Magini, V. Mantegazza, C. Vignati, M. Pepi, P. Agostoni (Milan, IT)</i>	123
Biventricular thrombi associated with noncompaction cardiomyopathy a case report. <i>G. Cristea, M. Horumba, D.V. Spataru, C. Homentcovschi, R. Siliste, A.M. Vintila, A.L. Gurghean, S. Onciul, R.A. Capsa, R. Ciomag (Bucharest, RO)</i>	124
The role of advanced imaging techniques in diagnosis of left ventricular noncompaction cardiomyopathy in an asymptomatic young woman with LBBB and dilated LV. <i>L. Vasilyeva, O.S. Kalashnykova, L.I. Vasilyeva, N. Rokytska, R. Tammo, A. Homich, S. Pivovarova (Dnepropetrovsk, Dnepr and Kiev, UA)</i>	125

14:00 - 15:30

RAPID FIRE ABSTRACTS

AGORA

Outcomes and prognostic factors for adult congenital heart disease

Fast paced and interactive session with key messages of 10 abstracts.
Rapid Fire Abstracts session = Oral Communication

Chairperson(s): A. Seale (Birmingham, US); W. Budts (Leuven, BE)

- | | | |
|---------|--|-----|
| 14:00 › | Panel of experts:
<i>M. Puchalski (Salt Lake City, US); S. Kutty (Baltimore, US)</i> | 162 |
| 14:00 › | Echocardiographic assessment of pulmonary pressures: the value of pulmonary regurgitation and pulmonary acceleration time.
<i>S. Phetcharat, C. Kavouras, L. Ilagan, S. Roxy, J. Wort, M. Gatzoulis, A. Kempny, K. Dimopoulos, W. Li (London, GB; Athens, GR)</i> | 163 |
| 14:09 › | Infective endocarditis in a contemporary adult congenital heart disease cohort.
<i>T. Branco Mano, A. Agapito, L. Moura Branco, A. Monteiro, L. Sousa, J. Oliveira, J. Fragata, F. Pinto, R. Cruz Ferreira (Lisboa and Lisbon, PT)</i> | 164 |
| 14:18 › | Prognostic potentialities of a new lung ultrasound score in pediatric cardiac surgery: comparison with conventional risk factors, and established prognostic biomarkers such as BNP, and CystatinC.
<i>M. Cantinotti, P. Marchese, P. Medino, E. Franchi, C. Viacava, R. Giordano, L. Gargani, B. Murzi, G. Santoro, L. AitAli (Massa, Pisa and Naples, IT)</i> | 165 |
| 14:27 › | Ebstein Anomaly what to expect in adult life?
<i>T. Branco Mano, J. Reis, A.F. Agapito, L. Sousa, J. Oliveira, A. Monteiro, L. Moura Branco, J. Fragata, F. Pinto, R. Cruz Ferreira (Lisboa and Lisbon, PT)</i> | 166 |
| 14:36 › | Ct coronary angiography for detection of coronary artery disease and or coronary anomalies in a contemporary cohort of adults with congenital heart disease.
<i>R. Barracano, M. Crisci, S. Guarguagli, C. Kavvouras, M. Brida, J. Sabatino, K. Dimopoulos, M. Gatzoulis (London, GB; Naples, IT)</i> | 167 |
| 14:45 › | Which ventricle in Ebstein's anomaly is responsible for heart failure?
<i>A. Cieplucha, O. Trojnarowska, A. BartczakRutkowska, A. Kociemba, M. Barczynski, S. Rozmiarek, L. Kramer, M. Pyda (Poznan, PL)</i> | 168 |
| 14:54 › | Assessment of global left ventricular strain in patients with congenital heart disease and left ventricular non compaction cardiomyopathy. role of global longitudinal strain in predicting outcome.
<i>C. Kavouras, W. Li, A. Laleggia, K. Dimopoulos, G. Giannakoulis, M. Efstathiou, R. Barracano, M. Brida, I. Cazzoli, M. Gatzoulis (London, GB; Thessaloniki, GR)</i> | 169 |
| 15:03 › | Color mmode echocardiography derived left ventricular diastolic indices in infants strongly correlate with left ventricular linear dimensions.
<i>C.T. Erickson, B. Meyers, L. Li, M. Craft, P. Vlachos, S. Kutty (Omaha and West Lafayette, US)</i> | 170 |
| 15:12 › | Myocardial blood flow in patients with coronary artery reimplantation. The role of stress echocardiography.
<i>C. Kavouras, K. Dimopoulos, R. Barracano, A. Laleggia, M. Brida, M. Gatzoulis, W. Li (Athens, GR; London, GB)</i> | 171 |
| 15:21 › | Assessment of right ventricular function in patients with double chambered right ventricle
<i>C. Kavouras, C. West, K. Dimopoulos, A. Laleggia, R. Baraccano, M. Efstathiou, I. Cazzoli, W. Li (Athens, GR; London, GB)</i> | 172 |

14:00 - 15:30

WORKSHOP

AGORA

Focus on heart valve disease

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- | | | |
|---------|---|-----|
| 14:00 › | Presenters:
<i>M. M. Gurzun (Bucharest, RO); P. Aruta (Padova, IT)</i> | 173 |
|---------|---|-----|

15:30 - 16:00 HOW-TO SESSION ROME

How to analyze a cardio vascular magnetic resonance exam Tips for beginners

Chairperson(s): C. BucciarelliDucci (Bristol, GB)

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

15:30 › Presenter: 174
A. Baritussio (Padova, IT)

15:30 - 16:00 SPECIAL SESSION AGORA

The research in imaging in the world: ASE and JSE YIA Winners



Chairperson(s): B. Cosyns (Brussels, BE); To be announced

The 2018 Young Investigator Awardees from US (American Society of EchocardiographyASE) and Japan (Japanese Society of EchocardiographyJSE) will present their winning research.

15:30 › ASE: Young Investigator Awardee presentation: "Endothelial Cell Repair Biophysics During Ultrasound and Microbubble Sonoporation." 175
B. Helfield (Toronto, CA)

15:42 › Discussion.

15:45 › JSE: Young Investigator Awardee presentation: «Threedimensional Assessment of Mitral Valve Remodeling after Myocardial Infarction: Comparison between Acute and Chronic Ischemic Mitral Regurgitation. 176
S. Nishino (Miyazaki, JP)

15:57 › Discussion.

16:00 - 18:00

SPECIAL EVENT

MILAN

Inaugural session



Chairperson(s): B. A. Popescu (Bucharest, RO); T. Edvardsen (Oslo, NO)

Entertainment

177

Welcome Address by the EACVI President.

B. A. Popescu (Bucharest, RO)

ESC Presidential Welcome.

S. Achenbach (Erlangen, DE)

Welcome Address by the Local Hosts.

M. Galderisi (Naples, IT); F. A. Benedetto (Reggio Calabria, IT)

Scientific programme highlights.

E. Donal (Rennes, FR)

Introduction of the Edler Lecture presenter.

B. A. Popescu (Bucharest, RO)

Edler Lecture: «The Renaissance of Stress Echocardiography»

E. Picano (Pisa, IT)

Presentation of Edler Diploma.

T. Edvardsen (Oslo, NO)

Presentation of the Nominated Honorary Member.

T. Edvardsen (Oslo, NO)

EACVI Research and Training Grant Winners.

V. Delgado (Leiden, NL)

Recognition of Certification & Accreditation.

M. Westwood (London, GB)

Results of the Elections: EACVI Board 2018-2020.

G. Habib (Marseille, FR)

Transfer of Presidency.

B. A. Popescu (Bucharest, RO)

Opening Address.

T. Edvardsen (Oslo, NO)

• Wednesday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee



EACVI

European Association of
Cardiovascular Imaging

Learn from imaging experts



E-learning programmes in Echocardiography,
Cardiovascular Magnetic Resonance,
Nuclear Cardiology,
Cardiac Computed Tomography and
NEW Multimodality Imaging in Congenital Heart Disease



Watch didactic video tutorials
and earn CME® credits

www.escardio.org/eacvi-e-learning



ESC

European Society
of Cardiology

09:00 - 16:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Clinical Case Poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time Heart Imagers of Tomorrow Clinical Case Poster hosts 12:45 13:45.

P. Lancellotti (Liege, BE); A. Gimelli (Pisa, IT); P. MaurovichHorvat (Budapest, HU); I. Dentamaro (Bari, IT); S. Loizos (Athens, GR); L. Baghdasaryan (Yerevan, AM)

Tricuspid valve reconstruction with tubular cylinder from extracellular matrix for tricuspid valve endocarditis

D. Zugwitz, M. Jelenc, T. Klokocovnik, K. Azman Juvan (Ljubljana, SI)

A double aortic valve could hide a lifethreatening condition

C. De Carlini, A. Tempesta, E. Lobiat, G. Gentile, A. Gamba, S. Maggolini (Merate and Lecco, IT)

Successful thrombolysis of a subacute prosthetic valve thrombosis with modified ultraslow thrombolytic therapy

U. Kocabas, H. Altay, O. Yildirimturk, F. Ozkalayci, B. Saritas, S. Pehlivanoglu (Istanbul, TR)

A challenging diagnosis.

S.L.J. Sara Lozano Jimenez, X.C.M. Xabier Cia Mendioroz, E.G.I. Eusebio Garcialzquierdo, M.C.M. Marta Cobo Marcos, V.M.P. Vanesa Monivas Palomar, L.A.P. Luis Alonso Pulpon (Majadahonda, ES)

Infolding in selfexpanding transcatheter aortic valve system: useful transesophageal echocardiography monitoring for diagnosis and efficacy

A. Kataoka, Y. Watanabe, F. Naganura, R. Okabe, H. Kawashima, M. Nakashima, T. Imazuru, K. Kozuma (Tokyo, JP)

Percutaneous mitral valve repair with MitraClip system in a patient with severe mitral regurgitation and hypertrophic cardiomyopathy: a case report

G. Palmiero, L. Ascione, E. Melillo, A. Ferro, R. Ascione, I. Monteforte, V. Monda, P. Caso, G. Bonzani (Naples, IT)

The role of multimodality imaging in a case of aortic prosthetic valve endocarditis

C. Dugo, A. Cecchetto, A. Chiampan, L. Lanzoni, S. Bonapace, C. Ciccio', M. Salgarello, E. Barbieri (Negrar (Verona), IT)

«Takotsubo» cardiomyopathy due to a myocardial infarction: can this be possible?

S. Loizos, O. Guttman, M. Thomas, S. Woldman, M. Khanji (London, GB)

Management in atrial fibrillation and heart failure patients

O. A. Tica, O. Tica, M.I. Popescu (Oradea, RO)

Rare case of Isolated left ventricular apical hypoplasia accompanied by Left ventricular noncompaction

V.I. Skidan, E.N. Pavlukova, G.P. Nartsissova (Khabarovsk, Tomsk and Novosibirsk, RU)

A rare case of uncorrected adult ALCAPA syndrome: the role of multimodal evaluation

D. M. Dorobantu, R. Onut, L. Predescu, L. Calmac, C. Minoiu, B. Draghici, M. Vasile, M. Dorobantu, I.M. Coman (Bucharest, RO)

Palpitations can be a symptom of a serious heart condition, giant sinus of Valsalva aneurysm with an anomalous origin from the right coronary artery.

E. Iglesias Colino, A. Riesgo Garcia, M. Palacio Solis, A. De La Fuente Villena, R. Eiros Bachiller, A. Diaz Dorronsoro, N. Salterain Gonzalez, J. Barba Cosials, E. Sufrate Sorzano, M. Gomez Llorente, L. Alonso Perez, J.J. Gavira Gomez, G. Bastarrika Aleman, P.M. Azcarate Aguero (Pamplona and Logroño, ES)

09:00 - 16:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time Heart Imagers of Tomorrow poster hosts 12:45 13:45.

P193

R. Citro (Salerno, IT); J. Magne (Limoges, FR); M.H. Miglioranza (Porto Alegre, BR); D. Nistor (Targu Mures, RO); G.E. Mandoli (Siena, IT); P. Lipiec (Lodz, PL)

Feasibility and reproducibility of left atrium measurements using different echocardiographic modalities.

P194

A. Motoc, B. Roosens, E. Scheirlynck, D. Plein, L. Soens, N. De Ryck, V. Michiels, I. Overeinder, C. Weytjens, S. Droogmans, B. Cosyns (Brussels, BE)

Subclinical pericardial effusion irrelevant finding or pathology? Results from the populationbased STAAB cohort study.

P195

F. Sahiti, M. Breunig, C. Morbach, G. Gelbrich, T. Tiffe, F. Eichner, M. Wagner, P.U. Heuschmann, S. Stoerk (Wurzburg, DE)

Speckle tracking echocardiography to characterise ventricular remodelling in severe aortic stenosis.

P196

L. F. Cerrito, G. Benfari, G. Vinco, F. Onorati, M. Noni, M. Cameli, G. Mandoli, G. Borio, L. San Biagio, G. Mazzali, M. Zamboni, F.L. Ribichini, A. Rossi, G. Faggian (Verona and Siena, IT)

Rightsided infective endocarditis without association to cardiac devices or intravenous drug abuse.

P197

P. Vilardell, S. Moral, D. Bosch, M. Morales, J.M. Frigola, X. Albert, J. Aboal, R. Brugada (Girona, ES)

Improvement of degenerative and functional mitral regurgitation after TAVI: retrospective analysis of a singlecenter experience.

P198

P. L. Laforgia, E. Stefanini, M. Pisaniello, A.I. Corciu, L. Delli Paoli, A. Pecoraro, L. Testa, F. Bedogni, M. Tusa (Milan and San Donato Milanese, IT)

Right ventricular dysfunction in the setting of TAVI: incidence and evolution.

P199

P. L. Laforgia, V. Tufaro, E. Chiorino, L. Delli Paoli, A.I. Corciu, V. Mantovani, L. Testa, F. Bedogni, M. Tusa (Milan and San Donato Milanese, IT)

Mitral regurgitation in patients with aortic stenosis undergoing TAVI: analysis of a population from a single center.

P200

P.L. Laforgia, E. Stefanini, L. Delli Paoli, A.I. Corciu, B. Abdel Ghani, A. Garatti, L. Testa, F. Bedogni, M. Tusa (Milan and San Donato Milanese, IT)

Followup echocardiography in asymptomatic valve disease: evaluating the benefit of a dedicated valve clinic.

P201

D. N. S. Senaratne, K. Thomas, K. Balkhausen, S. Bull (Reading, GB)

Immediate effect of balloon mitral valvuloplasty on left ventricular function in mitral stenosis patients assessed by 2d strain.

P202

F. Z. Amorouayeche, S. Latreche, S. Benkhedda (Algiers, DZ)

Obesity in pregnancy: impact on left ventricular geometry and function.

P203

J. Dudic, N. Gavrilovic, O. Petrovic, M. Tesic, N. KaradzovOrlic, P. Cabunac, B. DamjanovicPazin, M. Petrovic, Z. Mikovic, D. Trifunovic (Belgrade, RS)

Echocardiographic reference ranges for myocardial work in normal patients: a preliminary study.

P204

E.L.E.N.A. Galli, B. JohnMatthwes, F. Schnell, C. Leclercq, E. Donal (Rennes, FR)

Left atrial reservoir and conduit strain rate can predict atrial fibrillation recurrence after pulmonary vein isolation.

P205

M. Agelaki, P. Manolakou, P. Koudounis, J. Grapsa, A. Christou, T. Zografos, P. Nihoyannopoulos, A. Katsivas (Athens, GR; London, GB)

Biventricular and aortic function in systemic hypertension: A speckle tracking echocardiographic study.

P206

L. Capotosto, G. Germano', M. Giordano, M. Pergolini, A. Vitarelli (Rome, IT)

Left ventricular systolic and diastolic parameters, longitudinal strain and NTproBNP correlate with total alcohol dose in chronic alcohol abusers.

P207

P. Hamala, J.D.K. Kasprzak, P.L. Lipiec, K.W.D. WierzbowskaDrabik (Lodz, PL)

Right atrial function by speckle tracking echocardiography in atrial septal defect: prediction of atrial fibrillation. <i>L. Capotosto, G. Tanzilli, E. Mangieri, F. Miraldi, C. Gaudio, A. Vitarelli (Rome, IT)</i>	P208	WEDNESDAY SESSIONS
The diagnostic utility of early cardiac magnetic resonance (CMR) in myocardial infarction with nonobstructed coronary arteries (MINOCA). <i>R. Reyaldean, A. Dermedgoglou, S. Collings, A. Spears, A. Brazzale, S. Sutcliffe, G. Starmer, W. Lam (Cairns, AU)</i>	P209	WEDNESDAY POSTERS
Value of cardiac magnetic resonancebased feature tracking in patients with myocarditis. <i>C. Ruivo, E. Vilela, R. LadeirasLopes, R. Faria, N. Ferreira, V. Gama (Leiria and Vila Nova de Gaia, PT)</i>	P210	THURSDAY SESSIONS
Assessment of myocardial tissue characterisation in hypertension with left ventricular diastolic dysfunction. <i>H.A. Zainal Abidin, H. A. Zainal Abidin, L. Arcari, H. Zhou, C. Arendt, V. Puntmann, A. Zeiher, E. Nagel (Frankfurt am Main, DE; Selangor, MY)</i>	P211	THURSDAY POSTERS
Comprehensive imaging of coronary sinus anomalies. <i>E. Nicolaeva, I. Tkachev (Astrakhan, RU)</i>	P212	FRIDAY SESSIONS

09:00 - 16:00

POSTER SESSION

POSTER AREA

Clinical case poster session 1

All posters are on display from 09:00 to 16:00.
From 12:45 to 13:45 - Meet the presenters by their poster.

Echocardiography

InVitro FertilizationInduced Bioprosthetic Valve Thrombosis. <i>R. M. Abazid, M.O.H.A.M.E. Shoman, O.S.A.M.A. Smettei, O.S.A.M.A. Elamin (burydah, SA)</i>	P213	FRIDAY SESSIONS
Un explained syncope: usefulness of right parasternal approach <i>A. Comunello, A. Rossi, F.L. Ribichini (Verona, IT)</i>	P214	FRIDAY POSTERS
Successful management of myocardial infarction complicated with ventricular septal rupture and cardiogenic shock <i>M. Hassan Abdelnabi, A. Elsayed, Y. Saleh, A. Almaghraby (Alexandria, EG)</i>	P215	FRIDAY SESSIONS
A giant right atrium aneurysm <i>M. Hassan Abdelnabi, A. Almaghraby, Y. Saleh, O. Abdelkarim, B. Hammad (Alexandria, EG)</i>	P216	FRIDAY POSTERS
Multimodality imaging of an unknown right atrial mass <i>N.A.G.W.A. Thabet, A.S.M.A.A. Elsayed, S.O.H.A. Romeih, M. Elmagawry, H.A.N.I. Mahmoud (Aswan and Cairo, EG)</i>	P217	FRIDAY SESSIONS

Echocardiography: Dimensions, Volumes and Mass

Large left ventricular noninfectious vegetation in patient with eosinophilic granulomatosis with polyangiitis <i>S.H. Seol, Y.J. Song, S. Kim, D.K. Kim, K.H. Kim, D.I. Kim (Busan, KR)</i>	P218	FRIDAY SESSIONS
Integrated imaging evaluation of cardiac echinococcosis in a young woman: a case report <i>G. Buompane, A. Stingone, C. Commisso, N. Borrelli, G. Nucci, F. Perone, V. Porretta, P. Fina, M. Penco, S. Romano, G. Ferraiuolo, G. M. De Matteis (L'Aquila and Rome, IT)</i>	P219	FRIDAY POSTERS
Decrease of transaortic gradient in severe aortic stenosis after successful treatment of severe aortic coarctation <i>V. Spini, E. Poggianti, C. Taddei, A. Barison, V. Chubuchny, C. Petersen, E. Pasanisi, M. Emdin (Pisa, IT)</i>	P220	FRIDAY SESSIONS
A rare huge ascending aortic aneurysm <i>A. A. Kandil, M. Ayaz, A. Salih, A. Aslan (King's Lynn, GB)</i>	P221	FRIDAY POSTERS
A rare case of severe coronary disease <i>A. Nunes, A. Margarida Lebreiro, R. Lopes, H. Nascimento, R. Almeida, G. Pires Rosa, T. Pinho, M. Campelo, A. Jose Madureira, P. Pinho, M. Julia Maciel (Porto, PT)</i>	P222	FRIDAY SESSIONS

Severe aortic regurgitation of new onset during postoperative aortic dissection	P223
<i>G. RamirezEscudero Ugalde, C. Asla Ormaza, M. Codina Prat, P. Mendoza Cuartero, N. Garcia Ibarrondo, I. Bravo Martinez, A. Manzanal Rey, G. Aurrekoetxea Bajeneta, L. Ruiz Gomez, R. Martinez De Bourio (Bilbao, ES)</i>	
One year followup after pregnancy in patient with hypoplasia of the thoracic and abdominal aorta associated with celiac trunk stenosis Case report	P224
<i>A. M. LesniakSobelga, S. WisniowskaSmialek, M. Kostkiewicz, M. KaznicaWiatr, K. Holcman, M. Urbanczyk, R. Banys, P. Rubis, P. Podolec (Krakow, PL)</i>	
'Troponinitis' a rare phenomenon to take into account after inconclusive multimodality imaging.	P225
<i>L. Graca Santos, R. Ribeiro Carvalho, C. Ruivo, F. Montenegro Sa, F. Saraiva, F. Soares, J. Guardado, J. Correia, S. Pernencar, J. Morais (Leiria, PT)</i>	
The lethal hug: a giant but barely symptomatic mediastinal mass encircling the heart.	P226
<i>F. Cannata, M. Pellegrino, V. Lavanco, F. Fazzari, M. Curzi, R.M. Bragato, L. Monti (Rozzano, IT)</i>	
A hybrid approach to a giant left atrial mass	P227
<i>S. Cardoso Torres, M. Vasconcelos, P. Dias, C. Sousa, P.B. Almeida, P. Araujo, J.C. Silva, A.R. Sousa, F. Macedo, M.J. Maciel (Porto, PT)</i>	
Malignant lymphoma, pulmonary arteriovenous malformation: uncommon diseases with common presentation	P228
<i>E. A. Khalifa, G. Abushahba, A. N. Ghareep, S. Helmy, M. Alkuwari (Doha, QA)</i>	
Bordetella hinzii endocarditis: multimodality imaging techniques provides a definitive diagnosis	P229
<i>B. Berzal, N. Lorenzo, A.M. Rodriguez, M.P. Cubo, M. Mateos, L. Galan, S. Bartolome, J. Darriba, R. Gonzalez (Madrid and Cordoba, ES)</i>	
Multimodality imaging in a rare case of paravalvular endocarditis around the stent of a percutaneous lotus valve	P230
<i>G. Di Giannuario, N. Candiotti, D. Grosseto, S. Carigi, P. Venturi, A. Santarelli, S. Amati, L. Farneti, A. Mainardi, P. Testa, M. Ruffini, G. Piovaccari (Rimini, IT)</i>	
Congenital pseudoaneurysm of the mitral aortic intervalvular fibrosa with a 5 years follow up and review of the literature	P231
<i>A. Del Pasqua, C. Esposito, C. Chinali, P. Ciliberti, A. Secinaro, M. Iacomino, A. Cutri', P. Milewski, S.F. Iorio, F. Drago (Rome and Verona, IT)</i>	
Left atrial appendage absence: multimodality evaluation	P232
<i>A. Cecchetto, C. Ciccio, G. Molon, S. Bonapace, C. Dugo, A. Chiampan, G. Carbognin, E. Barbieri, L. Lanzoni (NegrarVerona, IT)</i>	
What can be hidden by st segment elevation	P233
<i>A. C. Popescu, B.M. Zamfirescu, L. Agoston Coldea, T. Cristica, C. Badiu, S.M. Balanescu, C. Nitipir, D.R. Dimulescu (Bucharest and Cluj Napoca, RO)</i>	
Echocardiography: Systolic and Diastolic Function	
Left ventricular ejection fraction in patients with heart failure with reduced ejection fraction and small left ventricle is not a good predictor of mortality	P234
<i>J. T. Niedziela, A. Krajewski, L. Pyka, M. Danicic, W. Skowron, K. MaciolSkurk, A. M. Frycz Kurek, J. U. Nowak, P. Rozentryt, M. Gasior (Katowice, PL)</i>	
Successfully managed rare acute Churg Struss cardiac involvement: It is not just dyspnea.	P235
<i>A. Ali, S. Mamdouh, S. Ibrahim, A. Gomaa (Alexandria, EG)</i>	
Linear interventricular septal rupture as a complication of the current myocardial infarction	P236
<i>S.J. BartoshZelenaya, I.A. Evsikova, T.V. Naiden, O.A. Guseva, N.E. Pavlova, O.P. Mamaeva, S.G. Shcherbak (St. Petersburg and SaintPetersburg, RU)</i>	
Challenging pregnancy counselling in a case with systemic RV dysfunction multimodality imaging	P237
<i>M. B. Castro Verdes, L. Ilagan, E. Surkova, C. Flick, C. West, S. BabuNarayan, W. Li (London, GB)</i>	

3D Echocardiography

- Traumatic aortic valve cleft diagnosed by 3D echo P238
H. Nascimento, C. Sousa, P. Pinto, J.P. Ferreira, A. RodriguesSousa, M.J. Maciel, F. Macedo (Porto and Penafiel, PT)
- A case of right atrial ghosts. P239
M. S. Shehata, H.S. Abd El Gawad, M. Abdelnabi, A. Al Maghrabi, M.A. Abd El Hay (Alexandria, EG)
- Persistent left atrial appendage formation despite prolonged oral anticoagulation: it's not always a clot. 3D transesophageal ecocardiography diagnosis of cardiac fibroelastoma P240
A. Bernardini, G. Taborchi, A. Colella, M. Berteotti, R. Del Bene, G.A. Barletta (Florence, IT)
- The role of 3D echocardiography in surgical intervention planning of intracardiac masses P241
M. Saraiva, N. Craveiro, L. Marta, M.L. Pitta, A. Laranjeiro, M. Leal (Santarem and Lisbon, PT)

Nuclear Imaging

- The case of the vanishing cardiac mass P242
T. Imran, P. Manning, S. Bernard (Boston, US)
- Radionuclide ventriculography phase analysis for risk stratification of patients undergoing cardiotoxic cancer therapy P243
K. A. Jones, A. D. Small, C. A. Paterson, J. Robinson, D. J. Hamilton, N. E. R. Goodfield (Glasgow, GB)
- Concealed cardiac amyloidosis in a patient with biventricular takotsubo cardiomyopathy P244
H. Okura, A. Keshi, Y. Nakada, S. Ishihara, M. Nogi, S. Okayama, R. Kawakami, Y. Saito (Kashihara, JP)

CrossModality and MultiModality Imaging Topics

- Longstanding rightsided heart failure caused by pulmonary capillary hemangiomas P245
M. Hassan Abdelnabi, H. Shehata, A. Almaghraby, Y. Saleh, N. Morsi, K. Ziada, S. Abd Elsamad (Alexandria, EG)
- A rare case of unexplained pulmonary arterial hypertension P246
M. Hassan Abdelnabi, A. Almaghraby, H. Shehata, K. Ziada, A. Ahmed, Y. Saleh, N. Morsi, A. Atteya, H. Bardan (Alexandria and Cairo, EG)
- A rare case of bilharzial endomyocardial fibrosis with a huge right atrium: a case report P247
M. Hassan Abdelnabi, H. Shehata, F. Elkafrawy, A. Yehia, O. Abdelkarim, Y. Saleh, A. Almaghraby (Alexandria, EG)

Imaging, Other

- Is simplified CUS always effective in finding the source of embolism? A rare case of pulmonary embolism with bilateral popliteal vein thrombosis. P248
E. Gallinoro, B. Liccardo, F. Natale, N. Verde, P. Golino, G. Cimmino (Naples, IT)
- Homozygotic familial hypercholesterolemia: a stenosis can hide another P250
M. Bennani, N. Erraboun, T. Kandoussi, S. Halab, L. Oukerraj, J. Zarzur, N. Doghmi, M. Cherti (Rabat, MA)
- A rare cause of dyspnoea P251
N. Craveiro, C. Costa, Y. Abowda, M.L. Pitta, M. Peres, C. Santos, M. Cabrita (Santarem, PT)
- Dressler syndrome truth or dare? P252
I. Duraes Campos, C. QuinaRodrigues, C. Oliveira, A. Salgado, P. Azevedo, J. Marques, C. Vieira (Braga, PT)

POSTERS SESSIONS

09:00 - 16:00

POSTER SESSION

POSTER AREA

Poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Echocardiography

What method use to provoke left ventricular outflow tract obstruction in hypertrophic cardiomyopathy? P253
M. MathelieGuinlet, A. Reynaud, M. Michaud, M. Dijos, C. Alexandrino, N. Nasser, S. Lafitte, P. Reant (Poitiers and BordeauxPessac, FR)

Myocardial microRNA133 is associated with left ventricle reverse remodeling in dilated cardiomyopathy. P254
E. M. Dziewiecka, J. TotonZuranska, S. WisniowskaSmialek, M. KoltonWroz, P. Wolkow, K. Holcman, L. Khachatryan, A. Karabinowska, M. Szymonowicz, P. Podolec, P. Rubis (Krakow, PL)

The use 2Ddimensional speckletracking echocardiography during catheter ablation in patients with atrial fibrillation P255
A. Dubanaev, S.Y.U. Usenkov, A.V. Smorgon, E.A. Archakov, R.E. Batalov, S.V. Popov (Tomsk, RU)

Left atrial area as a simple predictor of paroxysmal AF in patient with acute ischemic stroke. P256
W. Krol, W. Zelazowska, A. Zarek, A. Wilk, M. Ziemska, M. Konopka, M. Kuch, W. Braksator (Warsaw, PL)

Transthoracic echocardiography in assessment of cardiogenic causes of ischemic stroke P257
M. Ziemska, W. Krol, A. Zarek, W. Zelazowska, A. Wilk, M. Konopka, J. Krol, W. Braksator, M. Kuch (Warsaw, PL)

Echocardiography: Systolic and Diastolic Function

Interactive role of diastolic dysfunction and ventricular remodeling in stage A and B heart failure with preserved ejection fraction: impact on clinical practice P258
I. Rovai, I. Fabiani, N. R. Pugliese, C. Santini, L. Conte, R. Pedrinelli, F. L. Dini (Pisa, IT)

Usefulness of myocardial work measurement in the assessment of left ventricular systolic reserve response to spironolactone in heart failure with preserved ejection fraction P259
W. Kosowski, M. Kabaj, M. PrzewlockaKosmala, A. Mysiak, T.H. Marwick, W. Kosmala (Wroclaw, PL; Melbourne, AU)

Left ventricular function in second trimester of normal pregnancy, three dimensional echocardiography and speckle tracking study P260
G. Houshmand, N. Samiei, A. Tabib, S. Behrooj, Y. Rezaei, F. Kashfi (Tehran, IR)

Energy loss during diastole within ventricle in children, adolescents and young adults P261
M. Ifuku, K. Takahashi, T. Iso, K. Yazaki, M. Yamada, M. Kobayashi, S. Shigemitsu, K. Matsui, K. Itatani, T. Shimizu (Tokyo and Kyoto, JP)

Improved adherence to the 2016 ASE/EACVI guidelines recommendations for the evaluation of left ventricular diastolic function by echocardiography by conducting consolidated practical training sessions P262
F. Othman, G. Abushahba, S. Helmy, A. Salustri (Doha, QA)

Risk stratification of STEMI patients using parameters of myocardial mechanics P263
G. Krljanac, D. Trifunovic, M. Asanin, L. Savic, J. Dudic, L. Cucic, V. Sulovic, S. Aleksandric, I. Mrdovic (Belgrade, RS)

Tricuspid annular systolic displacementTAPSE is not an adequate parameter to evaluate right ventricular systolic function after lung transplant P264
C. Ruisanchez Villar, P. Lerena Saenz, V. Mora Cuesta, D. Iturbe Fernandez, P. Legarra Oroquieta, J. Sanchez Cena, B. De Tapia Majado, F.J. Gonzalez Vilchez, J.M. Cuesta Cosgaya, S. Fernandez Rozas, R. Mons Lera, J.M. Cifrian Martinez (Santander, ES)

Systolic aortic root motion revised: possible generation mechanism and prognostic implication in nonischemic dilated cardiomyopathy P265
M. Aurich, M. Niemers, P. Fuchs, S. Greiner, M. MuellerHennessen, L. Uhlmann, E. Giannitsis, P. Ehlermann, B. Meder, H.A. Katus, D. Mereles (Heidelberg, DE)

Possible mechanism by which obesity is related to heart failure: from the aspect of diastolic dysfunction and the body composition	P266
M. H. Jung, S.H. Ihm, K.S. Hong, H.O. Jung, H.J. Youn (Chuncheon and Seoul, KR)	
Assessment of predictive value of resting cardiac power output to left ventricular mass in patients with heart failure with reduced ejection fraction	P267
J. T. Niedziela, A. Krajewski, L. Pyka, L. Siedlecki, M. Kurdziel, A. Ociessa, J. Malyszek Tumidajewicz, A. Kazik, P. Rozentryt, M. Gasior (Katowice, PL)	
Does apical wall RWMA other than other segments reduce right ventricular function checked by Tricuspid Annular Plane Systolic Excursion (TAPSE) more?	P268
S.K. Ryu, C.W. Goh, J.Y. Park, S.H. Park, J.W. Choi, Y.S. Byun (Seoul and Chuncheon, KR)	
Quality improvement for LVEF estimates: an MRIbased learning exercise	P269
R.H. Davies, A. Wallis, A. Ionescu (Swansea, GB)	
Echocardiography: Valve Disease	
Which is the real prevalence of unknown aortic stenosis?: early diagnosis during flu vaccination campaign.	P270
J. Ramos Jimenez, S. Hernandez, M. Abellas Sequeiros, J.M. Vieitez Florez, J.L. Zamorano Gomez (Madrid, ES)	
The importance of progressive arterial stiffness as the residual risk after transcatheter aortic valve implantation in aged aortic valve stenosis patients.	P272
N. Nakazawa, Y. Seo, T. Ishizu, T. Hoshi, M. Yamamoto, T. Machino, K. Sato, M. Ieda (Tsukuba, JP)	
Association between atrial fibrillation and tricuspid regurgitation	P273
N.A. Willner, M. Diab, J. Lessick, I. Kehat, D. Aronson, Y. Hellman, Y. Agmon (Haifa, IL)	
Noninvasive myocardial work indices in patients undergoing mitralclip implantation	P274
R. Manganaro, R. Dulgheru, S. Marchetta, G. D'amico, S. Cimino, F. Ilardi, T. Sugimoto, C. Zito, S. Carerj, P. Lancellotti (Liege, BE; Messina, IT)	
Comparison of left ventricular remodeling and cardiac work evolution at 6 month between percutaneous mitral valve repair and optimal medical treatment in secondary mitral regurgitation	P275
A. Hubert, E. Galli, G. Leurent, C. Leclercq, E. Donal (Rennes, FR)	
Analysis of regional right ventricular function by tissue doppler imaging in patients with moderate and severe aortic stenosis	P276
M. V. Polito, S. Stoebe, G. Galasso, R. De Rosa, R. Citro, F. Piscione, U. Laufs, A. Hagendorff (Salerno, IT; Leipzig and Frankfurt, DE)	
The integrative algorithm recommended by ASE and cardiovascular magnetic resonance facilitate grading of aortic regurgitation severity in challenging cases	P277
S. Gao, C.L. Polte, O. BechHanssen (Gothenburg, SE)	
Left ventricle alteration following mitral valve surgery in rheumatic mitral stenosis: the impact of myocardial fibrosis	P278
T. M. H. Putra, D.R. Desandri, R. Sukmawan, C.A. Atmadikoesoemah, E. Sahara, M. Kasim (Jakarta, ID)	
Right ventricular systolic function in patients with severe tricuspid regurgitation: the role of longitudinal strain and conventional echocardiographic parameters.	P279
F. Ancona, F. Calvo, G. Melisurgo, A. Pascaretta, C. Capogrosso, A. Fisicaro, S. Stella, C. Marini, O. Alfieri, A. Margonato, E. Agricola (Milan, IT)	
Assessing the economic impact of specialist valve clinics compared to general cardiology clinics for asymptomatic valve disease	P280
K. Thomas, D.N.S. Senaratne, C. Townsend, S. Wheeler, I. Jacobson, A. Elkington, K. Balkhausen, S. Bull (Oxford and Reading, GB)	
Risk factors of mitral valve patientprosthesis mismatch and its relation with atrioventricular compliance	P281
A. Cirit, D. Cicek Yilmaz, . Pektas (Sanliurfa, Mersin and Batman, TR)	

The ratio of cross sectional area in each annulus over body surface area is most valuable physically independent index to distinguish dilatation of aortic valve complex related with aortic regurgitation
P282
H. Komatsu, D. Murai, D. Tatsuta, T. Sato, R. Suzuki, M. Toba, K. Asakawa, Y. Dannoura, T. Makino, T. Kouya (Sapporo, JP)

Phenotypic and genotypic approach of a large family with early onset tricuspid aortic valve sclerosis/stenosis: a multimodality evaluation.
P283
G. Guimbretiere, S. Le Scouarnec, S. Rigade, A.S. Boureau, C. Cuffe, K. Warin-Fresse, R. Capoulade, C. Dina, J. Merot, J.J. Schott, J.M. Serfaty, T. Le Tourneau (Nantes, FR)

Does left ventricular myocardial fibrosis affect left ventricular systolic function using global longitudinal strain in rheumatic mitral stenosis?
P284
D.R. Desandri, T.M.H. Putra, A.M. Soesanto, M. Kasim (Jakarta, ID)

Transesophageal Echocardiography

Total atrial conduction time measured by tissue doppler imaging for assessing left atrial impaired electromechanical function in patients with hypertension and paroxysmal atrial fibrillation.
P285
G. Esposito, P. Piras, P. Pellicori, V. Nuzzi, G. Pannarale, A. Evangelista, P. Nardinocchi, C. Torromeo, P.E. Puddu (Rome, IT; Glasgow, GB)

Reliability and challenges in noninvasive hemodynamic assessment with doppler echocardiography: comparison with the invasive evaluation
P286
M. De Scordilli, B. Pinamonti, S. Albani, C. Gregorio, G. Barbat, C. Daneluzzi, R. Korcova, A. Perkan, P. Geri, M. Biolo, F. Lo Giudice, G. Sinagra (Trieste and Padua, IT)

Clinical relevance of late systolic right ventricular pressure gradient augmentation traced by noninvasive Doppler echocardiography
P287
S. Greiner, F. Goppelt, M. Aurich, H.A. Katus, D. Mereles (Heidelberg, DE)

Prognosis of right ventricular function and pulmonary hypertension in patients with severe aortic stenosis undergoing TAVI
P289
A. Pardo Sanz, C. Santoro, R. Hinojar, L. Salido, A. Gonzalez, A. Garcia, J.J. Jimenez, V. Barletta, J.M. Monteagudo, A. Marco, S. Ruiz, S. Del Prado, R. Hernandez, J.L. Zamorano, C. Fernandez Golfín (Madrid, ES; Naples, IT)

Tissue Doppler, Speckle Tracking and Strain Imaging

Assessment of the subclinical cardiac involvement in patients with myotonic dystrophy
P290
F. Molnar, P. Kupo, E. Fodi, G. Vilmanyi, T. Simor, R. Faludi (Pecs, HU)

General anaesthesia and positive pressure ventilation suppress left ventricular global longitudinal function in patients without myocardial disease
P291
K. Dalla, S.E. Ricksten, O. Bech-Hanssen (Gothenburg, SE)

Role of left atrial strain in predicting brain involvement in patients with Anderson-Fabry disease
P292
R. Esposito, R. Sorrentino, L. La Mura, C. Santoro, C. Russo, E. Riccio, M. Imbriaco, A. Pisani, M. Galderisi (Naples, IT)

Left atrial strain in fifty five patients with rheumatic mitral stenosis
P293
F. A. Castro, O. Azevedo, M. Lourenco, B. Faria, M. Oliveira, I. Oliveira, A. Lourenco (Guimarães, PT)

Two-dimensional speckle tracking echocardiography for the assessment of left ventricle remodeling and functional improvement after aneurysmectomy
P294
O. Nemchyna, N. Solowjowa, Y. Hrytsyna, S. Soltani, J. Knierim, M. Dandel, V. Falk, C. Knosalla (Berlin, DE)

RV longitudinal dysfunction is correlated with high incidence of arrhythmias and conduction abnormalities during hospitalization in acute ST elevation myocardial infarction treated by primary PCI
P295
D. Zamfir, S. Onciul, C. Stefan, D. Cadil, D. Pitic, M. Stoian, A. Vijiac, R. Onut, G. Tamasescu, M. Dorobantu, A. Diaconeasa (Bucharest, RO)

POSTERS SESSIONS

Global longitudinal strain: effects by load and autonomic nervous system expression	P296
<i>P. Gottfridsson, R. Aroch, P. Lindqvist, L. Law, A. A'roch, G. Johansson, T. Myrberg, M. Haney (Umea, SE)</i>	
Timecourse of changes in left atrial dynamics in patients hospitalized for acute decompensated heart failure	P297
<i>M. Losito, A. Giammarresi, V. Labate, M. Caracciolo, F. Bandera, M. Rovidia, A. Vella, E. Alfonzetti, M. Guazzi (Milan and Verona, IT)</i>	
Left ventricle deformation in patients with myocarditis with preserved ejection fraction	P298
<i>O. V. Tereshina, O. A. Germanova (Samara, RU)</i>	
Is type of hypertension in pregnancy coupled with distinctive patterns of left ventricular geometry and function?	P299
<i>D. Trifunovic, J. Dudic, N. Gavrilovic, O. Petrovic, M. Tesic, P. Cabunac, N. KaradzovOrlic, B. DamjanovicPazin, S. Stanimirovic, Z. Mikovic, M. Petrovic (Belgrade, RS)</i>	
Provocation of left ventricular outflow tract obstruction using nitrate inhalation in hypertrophic cardiomyopathy: relation to electromechanical delay	P300
<i>W. Hamed, H.M. Badran, R.I. Yaseen, T. Alashkar (Shebin Elkom, EG)</i>	
Regional mechanical activation delay predicts the degree of functional improvement after cardiac resynchronization therapy	P301
<i>T. Zaremba, N. Risum, B. Tayal, P. Sogaard (Aalborg and Copenhagen, DK)</i>	
Deterioration of left ventricular global longitudinal peak strain in patients undergoing endovascular repair of abdominal aortic aneurysms.	P302
<i>M. Marketou, G. Papadopoulos, N. Kontopodis, S. Maragkudakis, A. Patrianakos, H. Nakou, E. Katsouli, M. Plataki, M. Vernardos, J. Konstantinou, M. Loulakakis, S. Kassotakis, C. Ioannou, F. Parthenakis (Heraklion, GR; London, GB)</i>	
Impaired LV mechanics in end stage renal disease patients with preserved LV systolic function undergoing hemodialysis	P303
<i>E. Tamulenaite, R. Zvirblyte, E. Ereminiene, E. Ziginskiene (Kaunas, LT)</i>	
Reference values for right ventricular strain in healthy subjects by twodimensional speckletracking strain: a prospective study in north african population	P304
<i>N. Dammene Debbih, Z. Benkali, F. Boukadir, N. Imouloudene, M.T.C. Bouafia (BLIDA, DZ)</i>	
Patients with cirrhosis have increased global right ventricular longitudinal strain	P305
<i>L. Demirevska, A. Chobanov, I. Daskalov, M. Nedkova (Sofia, BG)</i>	
New parameters to evaluate left ventricle torsion allow to understand the preservation of left ventricle ejection fraction in cardiac amyloidosis	P306
<i>V. Faga, V. Mora, I. Roldan, R. Arbucci, M.M. PerezGil, J. Bertolin, C. Nunez, A. Saad, E. Romero, J. Lowenstein (Valencia, ES; Buenos Aires, AR)</i>	
New parameters for the onset of atrial fibrillation: atrial dimension, ejection fraction and longitudinal strain	P307
<i>C.M. Angelescu, I. Petre, S. Iancovici, A. Scafa Udriste, A. Alexandrescu, M. Dorobantu (Bucharest, RO)</i>	
Parameters of myocardial mechanics in risk stratification of STEMI patients treated with contemporary therapy	P308
<i>G. Krljanac, D. Trifunovic, M. Asanin, I. Mrdovic, L. Savic, J. Dudic, L. Cucic, V. Sulovic, M. Srdic, M. Mihajlovic (Belgrade, RS)</i>	
Speckle tracking echocardiography in patients with atrial fibrillation and hypertrophic cardiomyopathy	P309
<i>R. Nowak, L. Danilowicz Szymanowicz, A. Zienciuk, K. Rozwadowska, E. Wabich, G. Raczak (Gdansk, PL)</i>	

Revascularization for prognosis in patients with suspected angina pectoris, is longitudinal strain useful to predict significant coronary artery disease?	P310
V. Alonso Fernandez, J.J. Rondan Murillo, M.T. Gonzalez Sanchez, S. Colunga Blanco, J.C. Garcia Rubio, S. Santos Hernandez, R. Linares Hernandez, C. Alvarez Gonzalez, J.M. Vegas Valle, I. Lozano MartinezLuengas, L.B. Rodriguez Redondo, B. Vega Hernandez, B. Samaniego Lampon, E. Segovia Martinez (Gijon, ES)	
Evaluation of left atrial and ventricular function in hypertrophic cardiomyopathy using speckle tracking echocardiography	P311
R. Ilhao Moreira, S. Aguiar Rosa, L. Moura Branco, A. Galrinho, J. Feliciano, A. Fiarresga, A.T. Timoteo, J. Abreu, A. Abreu, P. Rio, G. Portugal, A. Monteiro, P. Pinto Teixeira, R. Cruz Ferreira (Lisbon, PT)	
Assessment of treatment with Carvedilol in preventing early stage left ventricular dysfunction in breast cancer patients by 2D speckle tracking echocardiography.	P312
M. Moshkani Farahani, S. Nourian (Tehran, IR)	
The possible impact of systolic and diastolic left atrial appendage function in the three distinct phases of left atrial macrophysiology in patients with paroxysmal atrial fibrillation.	P313
M. Agelaki, P. Serafeim, P. Manolakou, P. Koudounis, T. Zografos, A. Christou, A. Papadopoulos, K. Drivas, C. Papadopoulos, A. Katsivas (Athens, GR)	
A comparative study between 2D and 3D echocardiographic markers of myocardial fibrosis in hypertrophic cardiomyopathy	P314
V. H. Pereira, R. Passos, C. Vieira, I. Campos, J. Marques (Braga, PT)	
Value of global longitudinal peak systolic strain derived by 2D speckle tracking in detection of obstructive coronary artery disease	P315
M.F. Areed, M.M. Youssof, M.M. Wadie (Mansoura, EG)	
Influence of new hypertension definition on 3D deformation	P316
W. C. Tsai, W.H. Li, Y.W. Liu (Tainan, TW)	
3D Echocardiography	
Non inferior results in direct mitral valve planimetry with three dimensional (3D) echocardiography compared to multiplanar reconstruction (MPR)	P317
M. Toufan, N. Khezerlou, H. Faraji (Tabriz, IR)	
3D assessment of the tricuspid annulus in sinus rhythm and atrial fibrillation: does measurement methodology matter?	P318
V. Volpato, M. Yamat, F. Veronesi, L. Weinert, G. Tamborini, M. Muratori, L. Fusini, M. Pepi, V. MorAvi, R.M. Lang, K. Addetia (Chicago, US; Bologna and Milan, IT)	
Left ventricular torsion as marker of disease severity in patients with nonischemic dilated cardiomyopathy based on three-dimensional echocardiography	P319
M. Rady, J. Svitil, F. Heidrich, S. Ulbrich, U. Speiser, A. Linke, K. Sveric (Dresden, DE)	
Impact of realtime 3D echocardiography on device time, success of the procedure and outcome in mitralclip implantation	P320
R. Citro, C. Baldi, M.R. Di Muro, M. Bellino, I. Radano, A. Silverio, C. Prota, M. Simeone, G. Mastrogianni, A. Gigantino, P. Giudice, G. Galasso, F. Piscione (Salerno, IT)	
Decreased right ventriculararterial coupling in newly diagnose stage III never treated hypertensive patients	P321
O. Vriz, E. Bossone, D. Galzerano, M. Adam, M. Al Humaid, K. Alassas, G. Di Salvo, B. Fadel, M. Pirisi, R. Naejie (Riyadh, SA; Salerno and Novara, IT; London, GB; Brussels, BE)	
Prognostic value of echo contrast enhanced 3D dobutamine stress echocardiography.	P322
B. Shivalkar, A. De Keersmaecker, N. Van Hoeck, P. Belkova, C. Van De Heyning, C. De Maeyer, C. Vrints (Antwerp, BE)	
Multimodality imaging assessment of left atrial size methods in patients with atrial fibrillation	P323
V. Marinho, P. Alves, M. Santos, C. Domingues, J. Milner, J. Ferreira, P. Mendes, N. Antonio, P. Sousa, R. Martins, J. Marques (Coimbra, PT)	

Is 3D analysis of longitudinal strain useful for the assessment of apical sparing in cardiac amyloidosis?	P324
<i>V. Volpato, R.M. Lang, F. Maffessanti, A.R. Patel, V. MorAvi, K. Addetia (Chicago, US; Lugano, SZ)</i>	
3D echo statistical shape analysis to define the average 3D anatomical shape and variations in degenerative mitral valve regurgitation	P325
<i>B. Biffi, S. Gopee, E. Milano, L. De Micco, A. Fiocco, F. M. Susin, A. Colli, S. Schievano (London, GB; Padua, IT)</i>	
Assessment of global and regional right ventricular systolic function in interstitial lung disease by novel speckle tracking 3D echocardiography comparison with cardiac magnetic resonance imaging .	P326
<i>N.A.R.E.S.H. Sen, T.A.N.W.A.R. Sonal, A.S.H.O.K. Jain, B.A.L.B.I.R. Kalra (Delhi, Jaipur and gurgaon, IN)</i>	
Right ventricular function by echocardiography: relationship between conventional surrogates and threedimensional metrics	P327
<i>P. Freitas, R. Ribeiros, M.J. Andrade, C. Brizido, C. Reis, E. Horta, J. Abecassis, G. Cardoso, M. Trabulo, M. Canada, M. Mendes (Lisbon, PT)</i>	
Ability of 3D Echo in detecting and sizing the entry tear in type A aortic dissection updated single center experience	P328
<i>M.L. De Alcantara, A.S. Felix, A.P.R.V. Siciliano, G.A. Guenka, G.S. Duque, M.O. Lacoste, R.P. Lustosa, M.P.L. Bernardo, L.F.A. Cordeiro, R.M.G.C. Francisco, M.R. Amar, M.P.L. Leme, S.M. Juciara, V.S. Cravo, C.M. Correa (Rio de Janeiro, BR)</i>	
Intraoperative and Interventional Echocardiography	
Impact of chronic kidney disease on mitralclip therapy: oneyear outcomes from the GRASP registry stratified by left ventricular function.	P329
<i>A. M. Caggegi, P. Capranzano, S. Scandura, S. Mangiafico, G. Castania, S. Farruggio, T. Salerno, A. Popolo Rubbio, S. Sanalitro, J. De Santis, Z. Ludanyiova, M. E. Di Salvo, C. Grasso, D. Capodanno, C. Tamburino (Catania, IT)</i>	
Mitral annulus remodelling after percutaneous mitral valve repair with the MitraClip system, a 2D and 3D echocardiographic analysis	P330
<i>L. Trasca, L. Sanchis Ruiz, X. Freixa, A. Regueiro, M. Sabate, M. Sitges (Barcelona, ES)</i>	
Left ventricular dilatation is associated with lower mortality after mitralclip therapy	P331
<i>M. Kukucka, A. Mladenow, D. EggertDoctor, H. Habazettl, J. Kempfert, S. Jacobs (Berlin, DE)</i>	
Role of a new 3D transoesophageus echo software in the preoperative aortic prosthesis sizing: data comparison with CT scan	P332
<i>A. Barosi, C. Romagnoni, G. Gelpi, M. Di Biasi, S. Ippolito, A. Lanfranchi, M. Cerchiello, S. Colombo, L. Blaco, M. Montella, C. Antona, M. Viecca (Milan, IT)</i>	
Mitral annular anteriorposterior (AP) diameter is acutely reduced by catheterbased edgetoedgerepair in patients with dilated cardiomyopathy (DCM) and secondary mitral regurgitation (sMR)	P333
<i>L. Faber, W. Scholtz, N. Bogunovic, J. Boergermann, J. Gummert, D. Horstkotte, S. Scholtz (Bad Oeynhausen, DE)</i>	
The role of 3D intracardiac echocardiography in complex catheter ablation procedures	P334
<i>A.S. Santoro, C.B. Baiocchi, V.Z. Zaca, S.L. Lunghetti, L.S. Spera, A.R. Romano, M.S. Stricagnoli, R.G. Gentilini, M.C. Cameli, S.M. Mondillo, G.L. Lumia, C.B. Bellini, A.G. Gaspardone, F.L. Lamberti (Siena and Rome, IT)</i>	
Patency of the oval foramen: from closing by occlusive «device» to the «NobleStitch» technique. Incidence and causes of failure.	P335
<i>A. Lavorgna, D. Fabiani, G. Tomassoni, F. De Remigis, L. Petrella, S. Paparoni, C. Napoletano (Teramo, IT)</i>	
Esophageal imaging with 3D intracardiac echocardiography and strategies for avoiding esophageal injury during left atrial ablation.	P337
<i>A.S. Santoro, C.B. Baiocchi, V.Z. Zaca, L.S. Lunghetti, L.S. Spera, M.S. Stricagnoli, A.R. Romano, R.G. Gentilini, G.L. Lumia, C.B. Bellini, F.A. Alvino, M.C. Cameli, S.M. Mondillo, A.G. Gaspardone, F.L. Lamberti (Siena and Rome, IT)</i>	

Latrogenic cardiac perforation: outcomes of an aggressive percutaneous echobased management strategy
C.B. Kane, A. Lekhakul, S.V. Pislaru, J. Thaden, L.J. Sinak, G.C. Kane (Rochester, US) P338

Rightchamber dysfunction determined by echocardiography as a predictor of mortality in patients with coronary artery bypass grafting.
R. Rascon Sabido, H.C.S. Castillejos, C.M.H. Martinez, D.I.Q. Ibarra Quevedo, E.A.G. Almeida Gutierrez (Veracruz and Mexico City, MX) P339

Computed Tomography

Comparison of coronary CT angiography and invasive coronary angiography: quality of life and cost effectiveness in patients with suspected coronary artery disease from a lowincome country
R. Hodas, J. Lo, I. Benedek, S. Krodi, I. Rodean, T. Benedek (Targu Mures, RO; New York, US) P340

Vulnerable coronary plaques are associated with a higher functional significance as compared to nonvulnerable ones. A computed tomography angiographybased study
T. Benedek, M. Orzan, R. Hodas, M. Ratiu, N. Rat, A. Mester, T. Nyulas, I. Benedek (Targu Mures, RO) P341

Ultra low contrast dose coronary computed tomography angiography onebeat acquisition: opening door to patients
I. Timofeeva, J. Sablayrolles, L. Macron, J. Feignoux (SaintDenis, FR) P342

Epicardial fat volume is associated with vulnerability features of culprit coronary plaques in patients with unstable angina, a computed tomographic based study
D. Opincariu, T. Benedek, N. Rat, M. Ratiu, I. Ferent, M. Morariu, A. Mester, K. Banga, I. Benedek (Tirgu Mures, RO) P343

Pericoronary epicardial fat surrounding vulnerable coronary plaques is associated with increased plaque burden and remodeling, a CTbased substudy of the PlaquelImage project
N. Rat, I. Benedek, M. Ratiu, M. Chitu, M. Morariu, R. Hodas, S.Z. Korodi, D. Opincariu, T. Benedek (Tirgu Mures, RO) P344

Relationship between coronary artery calcium score and computed tomography myocardial perfusion.
M. El Mahdiui, A.R. Van Rosendael, J.M. Smit, J.W. Jukema, J.J. Bax, A.J. Scholte (Leiden, NL) P345

Epicardial fat volume and auricular thrombosis in patients with atrial fibrillation
G. Staskiewicz, E. CzekańskaChehab, E. Siek, P. Przybylski, S. Uhlig, M. Wojcik, A. Drop (Lublin, PL) P346

follow up of thoracic aorta diseases with concurrent evaluation of coronary arteries using wide detector coverage ct with low dose protocol
A. Annoni, D. Andreini, G. Pontone, M.E. Mancini, G. Muscogiuri, A. Formenti, A. Baggiano, M. Guglielmo, E. Conte, S. Mushtaq, M. Pepi (Milan, IT) P347

Effective radiation dose in diagnostic coronariography: cardiac computed tomography vs invasive angiography
M.E. Tundidor Sanz, T. Benito Gonzalez, C. Delgado SanchezGracian, A. Perez De Prado, C. Trinidad Lopez, C. Cuellas Ramon, A. Villanueva Campos, M. Lopez Benito, E. Utrera Perez, F. FernandezVazquez, C. Jurado Basildo, M. Rodriguez Santamarta, L. Alvarez Roy, S. Del Castillo Garcia (Leon and Vigo, ES) P348

CrossModality and MultiModality Imaging Topics

Echocardiographic predictors of severe pulmonary regurgitation after surgical repair of Tetralogy of Fallot
A. M. Van Berendoncks, R. Van Grootel, J. Mcghie, M. Van Kranenburg, M. Menting, J. A. A. Cuypers, A. J. J. Bogers, M. Witsenburg, J. W. RoosHesselink, A. E. Van Den Bosch (Rotterdam, NL) P349

Frequency of postprocedural echocardiograms in cathetermediated patent ductus arteriosus closure is greater than after surgical closure
G. Varghese, C. Erickson, C. Curzon, J. Delaney, M. Craft, D. Danford, S. Kutty (Omaha, US) P350

Long term followup results of adult operated ToF patients
U. Y. Sinan, O. Onder, M.S. Kucukoglu (Istanbul, TR) P351

Echocardiographic imaging parameters correlation with cardiac biomarkers in congenital heart defects	P352
<i>A. L. Neves, M. Cabral, A. LeiteMoreira, J. Monterroso, C. Ramalho, H. Guimaraes, H. Barros, J. T. Guimaraes, T. HenriquesCoelho, J. C. Areias (Porto, PT)</i>	
Imaging the systemic right ventricle: the role of 3D echocardiography. A prospective study.	P353
<i>M. Schneider, T. Binder, G. Goliasch, K. Vonbank, H. Gabriel (Vienna, AT)</i>	
Relation between myocardial mechanics and aortic deformation in patients with marfan syndrome.	P354
<i>C. Granato, G. Teixido, A. Guala, L. Gutierrez, A. Ruiz Munoz, N. Villalva, I. Dentamaro, L. Galian, R. Fernandez Galera, M.T. GonzalezAlujas, J.F. RodriguezPalomares, D. GarciaDorado, A. Evangelista (Barcelona, ES)</i>	
Is bicuspid aortic valve a predictor of faster ascending aorta dilatation or earlier cardiac surgery? a longitudinal long term followup study	P355
<i>D. Bellavia, V. Agnese, S. Pasta, G. Raffa, A. Iacovoni, M. Caputo, C. Fino, G. Romano, C. Mina, R. Calo, J. Maalouf, H.I. Michelena, F. Clemenza, M. Pilato (Palermo and Bergamo, IT; Bristol, GB; Rochester, US)</i>	
Predictive factors of ascending aorta surgery in patients with aortic coarctation.	P356
<i>B.I.M. Igual Munoz, F.J.V.M. Valera Martinez, J.R.S. Rueda Soriano, D.D.V. Domingo Valero, O.B.H. Blanco Herrero, J.I.C. Carrasco Moreno, A.S.V. Sanchez Vazquez, R.P.S. Paya Serrano, J.L.P.B. Perez Bosca, A.M.A. Montero Argudo, A.B.J. Berenguer Jofesa, S.M.C. Morell Cabedo (Valencia and VALENCIA, ES)</i>	
Subclinical atherosclerosis: Brachiocephalic trunk, the forgotten artery?	P358
<i>O.G. Perea, C. Pulmari, A.E. Arriola, A. Russo, J. Morbidoni, M. Corneli (Buenos Aires, AR)</i>	
Visualization of the arterial wall vascularization in activestage takayasu arteritis by using superb microvascular imaging	P359
<i>W. Sato, T. Iino, H. Watanabe (Akita, JP)</i>	
Obesity, visceral adiposity and carotid atherosclerosis.	P360
<i>M. Haberka, M. Biedron, M. Matla, K. SzostakJaniak, M. Partyka, Z. Gasior (Katowice, PL)</i>	
Estimating the accuracy of common carotid artery intimamedia thickness measurement using wireless and handheld ultrasounds	P361
<i>H. Choi, J.W. Yoo, S.M. Seung, W.J. Chung (Incheon, KR)</i>	
The gap between «young atherosclerosis» and «young acute myocardial infarction»: where are we now? A single casecontrol study	P362
<i>R. America, M. C. Crisci, M. D.M. Di Maio, R. Bianchi, F. Natale, B. Liccardo, E. Golia, M.G. Russo, A. D'andrea, P. Calabro (Naples, IT)</i>	
A new predictor index of atherosclerotic disease testing on apparently healthy populations	P363
<i>O.G. Perea, C. Pulmari, J. Morbidoni, A. Russo, A.E. Arriola, E. Borelli, S. Mckeen, M. Lombardero (Buenos Aires, AR)</i>	
Carotid wall shear rate is a promising marker of atherosclerotic cardiovascular diseases	P364
<i>V. Genkel, I. Shaposhnik (Chelyabinsk, RU)</i>	
Enhancement, segmentation and characterization of atheroma plaque for stroke prevention	P365
<i>S. I. Dumitrescu, A. Milasan, M. Gurzun, I. Hantulie, R. Boingiu, D. Savoia, R. Popescu, D. Ciobanu, R. Constantinescu, S. Botezatu, I. Raduta, M. Dumitrascu, L. Chiriac, R. Bolohan (Bucharest, RO)</i>	
Cardiac magnetic resonance based deformation imaging in professional athletes and hypertrophic cardiomyopathy patients with grey zone hypertrophy	P367
<i>C. Czibalmos, I. Csics, Z. Dohy, F.I. Suhai, A. Toth, L. Szabo, V. Juhasz, O. Kiss, B. Merkely, H. Vago (Budapest, HU)</i>	
Cardiac morphology and function with respect to liver histology in morbidly obese patients	P368
<i>G. Styczynski, P. Kalinowski, L. Michalowski, R. Paluszkiwicz, B. ZiarkiewiczWroblewska, K. Zieniewicz, M. Sinski, C. A. Szmigielski (Warsaw, PL)</i>	

Left atrial dysfunction is associated with high levels of fibrosis and inflammation biomarkers among patients with hypertension.	P369
<i>L. Nunno, C. Butakoff, M. Mimbrero, F. Loncaric, L. Sanchis, S. Montserrat, M. Morales, B. Bijmens, M. Sitges (Barcelona, ES)</i>	
Matching guidelines and cardiac damage by echocardiography in non valvular atrial fibrillation: the neafibecho registry	P371
<i>A.M. De Roberto, F. Lo Iudice, A. Buonauro, A. Vaccaro, L. Esposito, F. Luciano, R. Esposito, A. Tufano, B. Trimarco, M. Galderisi (Naples, IT)</i>	
Can we bury the hatchet? The first polish cardiac device related infective endocarditis registry POLCDRIE	P372
<i>P. Gosciniak, E. Plonska, K. Holcman, K. Boczar, Z. Gasior, L. DaniłowiczSzymanowicz, A. Kugacka, K. Golba, J.D. Kasprzak (Szczecin, Krakow, Katowice, Gdansk, Wroclaw and Lodz, PL)</i>	
What is the best imaging technique to explore right ventricular function at the time of multimodality cardiovascular imaging?	P373
<i>S. Cazalbou, V. Chong Fah Shen, A. Petermann, D. Eyharts, P. Fournier, E. Cariou, Y. Lavie Badie, A. Hennig, J. Roncalli, H. Rousseau, D. Carrie, M. Galinier, I. Berry, O. Lairez (Toulouse, FR)</i>	
Diagnostic accuracy of point of care tripleorgan ultrasonography for the diagnosis of pulmonary embolism	P374
<i>A. LedakowiczPolak, G. Krauza, K. Stokfisz, M. Zielinska (Lodz, PL)</i>	
Exercise and passive leg lifting procedures both unravels elevated left ventricular filling pressures as a cause of symptoms in HFpEF	P375
<i>P. Lindqvist, E. Tossavainen, G. Wikstrom, M. Lundqvist, M.Y. Henein, U. Wiklund (Umeå, Umea and Uppsala, SE)</i>	
Diagnostic value of transesophageal echocardiography with saline bubble test in identifying pulmonary arteriovenous fistula	P376
<i>K.H. Lim, S.M. Kim, S.J. Park, E.K. Kim, S.A. Chang, S.C. Lee, S.W. Park (Seoul, KR)</i>	
Multiintegrated simultaneous cardiovascular evaluation in patients undergoing transcatheter aortic valve implantation: carotid stiffness, coronary and cerebral flow reserve.	P377
<i>R. America, A. D'andrea, L. Riegler, R. Scarafile, J. Radmilovic, A. Carbone, R. Bianchi, M. Cappelli, D. Tartaglione, P. Golino (Naples, IT)</i>	
Pre and intraprocedural multimodality approach for endovascular left atrial appendage closure: headtohead comparison among 2D and 3D echocardiography, angiography and computer tomography	P378
<i>G. Italiano, A.C. Maltagliati, L. Fusini, E. Mancini, V. Mantegazza, F. Susini, D. Brusoni, F. Trotta, R. Sicuso, G. Fassini, C. Tondo, M. Pepi (Milan, IT)</i>	

Thursday 6 December



- > Browse the most up-to-date scientific programme in the EuroEcho-Imaging Mobile App



- > Missed a session? Consult videos, slides sets, abstracts and ESC TV interviews on the NEW ESC 365
www.escardio.org/365



- > Tweet about your favourite sessions **#EuroEcho**



EACVI

European Association of
Cardiovascular Imaging

Get certified by the EACVI



EACVI certification provides formal
European recognition to individuals

**Over 2,000 professionals
already certified**

- **New!** CMR CHD, Nuclear Cardiology
and Cardiac Computed Tomography



Discounts for EACVI Silver Members



ESC

European Society
of Cardiology

www.escardio.org/EACVI-certification

Morning Sessions

08:30 - 10:00 MAIN SESSION MILAN

Screening of athletes - relevance of imaging techniques

Chairperson(s): R. Skalik (Wroclaw, PL); To be announced

- 08:30 › Changes in the heart of athletes: adaptative vs maladaptative? 379
A. La Gerche (Melbourne, AU)
- 08:52 › Rest or exercise to explore athletes? 380
A. D'Andrea (Naples, IT)
- 09:15 › Do we need multi-modality imaging. 381
A. Malhotra (London, GB)
- 09:37 › Could we predict atrial fibrillation in athletes. 382
L. Thomas (Sydney, AU)

08:30 - 10:00 SYMPOSIUM ROME

Imaging and aortic valve stenosis

Chairperson(s): Y. Seo (Ibaraki, JP); J. Bermejo Thomas (Madrid, ES)

- 08:30 › Aortic stenosis: the echocardiographic assessment. 383
C. Zito (Messina, IT)
- 08:52 › The new guidelines algorithm: will it change again? 384
H. Baumgartner (Muenster, DE)
- 09:15 › Is echocardiography useful in the decision making process for TAVI or not? 385
P. Pibarot (Quebec, CA)
- 09:37 › Echocardiography and Transcatheter Aortic Heart Valve (TAVI), should computed tomography replace echocardiography for pre-procedural assessment of aortic stenosis? 386
J.L. Cavalcante (Pittsburgh, US)

08:30 - 10:00 CLINICAL IMAGING PALERMO

Standard/advanced imaging and anticoagulation in atrial fibrillation

Session in collaboration with the European Heart Rhythm Association (EHRA)

Chairperson(s): H. Heidbuchel (Antwerp, BE); M. Galderisi (Naples, IT)

- 08:30 › CHA2DS2VASc score: the need of improving thromboembolic prediction in intermediate risk scores. 387
I. Savelieva (London, GB)
- 08:52 › Standard echocardiographic assessment in patients with atrial fibrillation. 388
M. Sitges (Barcelona, ES)
- 09:15 › Advanced echocardiographic assessment in patients with atrial fibrillation. 389
V. Delgado (Leiden, NL)
- 09:37 › Rationale and initial update of EACVI AFib Echo. 390
M. Galderisi (Naples, IT)

08:30 - 10:00 TEACHING COURSE TURIN

Basics of cardiac ultrasound**Chairperson(s): J. D. Kasprzak (Lodz, PL); A. Stefanidis (Athens, GR)***Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.*

- 08:30 › Physics, instrumentation and machine settings. 391
A. Hagendorff (Leipzig, DE)
- 08:52 › The complete standard echo study 392
F. Flachskampf (Uppsala, SE)
- 09:15 › Common mistakes and pitfalls: how to avoid them 393
K. F. Fox (London, GB)
- 09:37 › Facts or artifacts in 2D-Doppler echocardiography 394
P. M. Vandervoort (Genk, BE)

08:30 - 10:00 SYMPOSIUM NAPLES

Role of imaging in the evaluation of pulmonary hypertension - State of the art**Chairperson(s): I. M. Coman (Bucharest, RO); E. Bossone (Lauro, IT)**

- 08:30 › Echocardiography in the assessment of pulmonary hypertension. 395
S.W. Wahi (Brisbane, AU)
- 08:52 › Role of computed tomography in pulmonary hypertension. 396
P. Maurovich-Horvat (Budapest, HU)
- 09:15 › CMR in the assessment to pulmonary hypertension. 397
M. Westwood (London, GB)
- 09:37 › Role of exercise testing in the assessment of pulmonary hypertension. 398
F. Bandera (San Donato Milanese, IT)

08:30 - 10:00 SYMPOSIUM GENOA

The added value of strain to widen your clinical skills**Chairperson(s): E. Galli (Rennes, FR); S. Goldstein (Potomac, UM)**

- 08:30 › A patient with ischemic cardiomyopathy. 399
M. Kowalski (Warszawa, PL)
- 08:52 › A patient with valve disease. 400
D. Vinereanu (Bucharest, RO)
- 09:15 › A patient with syncope. 401
J. Kisslo (Durham, US)
- 09:37 › A patient with dyspnea. 402
L. Herbots (Hasselt, BE)

Morning Sessions

08:30 - 10:00 SYMPOSIUM VENICE

Left ventricle (LV) diastolic dysfunction - Made easy

Chairperson(s): H. Dokainish (Hamilton, CA); I. Stankovic (Belgrade, RS)

- 08:30 › Assessment of LV diastolic function. 403
P. N. Marino (Novara, IT)
- 08:52 › Estimation of LV filling pressures. 404
B. A. Popescu (Bucharest, RO)
- 09:15 › Left atrium strain in left ventricular diastolic function. 405
D. Morris (Berlin, DE)
- 09:37 › Exercise diastology. 406
W. Kosmala (Wroclaw, PL)

08:30 - 10:00 RAPID FIRE ABSTRACTS AGORA

Imaging in heart failure: from physiology to management

Chairperson(s): R. N. Naeije (Brussels, BE); M. Swaminathan (Durham, US)

Fast paced and interactive session with key messages of 10 abstracts.

Rapid Fire Abstracts session = Oral Communication

- 08:30 › Panel of experts: 407
S. Carerj (Messina, IT); A. Bernard (Tours, FR)
- 08:30 › Diagnostic accuracy of lung ultrasound for identification of elevated left ventricular filling pressure 408
A. Hubert, N. Girerd, H. Le Breton, E. Galli, M. Fournet, P. Mabo, F. Schnell, C. Leclercq, E. Donal (Rennes and Nancy, FR)
- 08:39 › Differential value of left ventricular longitudinal systolic function parameters for prediction of adverse outcome in heart failure with preserved ejection fraction 409
M. Kabaj, W. Kosowski, M. Przewlocka-Kosmala, A. Mysiak, W. Kosmala (Wroclaw, PL)
- 08:48 › The added value of exercise stress echocardiography in heart failure patients: the role of dual evaluation of cardiac index and pulmonary congestion 410
I. Fabiani, N. R. Pugliese, G. G. Galeotti, A. D'agostino, C. Santini, I. Rovai, R. Pedrinelli, F. L. Dini (Pisa, IT)
- 08:57 › Disturbed flow coupling between diastole and systole in dilated cardiomyopathy 411
L. Takahashi, T. Uejima, H. Nishikawa, T. Chikamori, T. Yamashita (Tokyo, JP)
- 09:06 › Epicardial adipose tissue thickness is an independent maker of reduced left ventricular relaxation in asymptomatic people with normal systolic function 412
P. Monney, G. Ehret, N. Barras, L.P. Mondouagne Engkolo, J. Regamey, P. Meyer, M. Bochud, R. Hullin (Lausanne and Geneva, CH)
- 09:15 › Regional myocardial glucose metabolism correlates closely with regional myocardial work in the left ventricle 413
J. Duchenne, A. Turco, S. Unlu, E. Pagourelas, K. Vunckx, G. Degtiarova, S. Bezy, M. Cvijic, J. Nuyts, P. Claus, O. Gheysens, F. Rega, J.-U. Voigt (Leuven, BE)
- 09:24 › Biventricular strain values in the future prediction of all-cause mortality in admitted patients with acute heart failure 414
J.H. Park, I.W. Seong, J.J. Park, J.B. Park, G.Y. Cho (Daejeon, Seongnam and Seoul, KR)
- 09:33 › Left bundle branch block modifies the relationship between E/e' and left ventricular filling pressure: E/e' lateral is most robust 415
K. Masuda, J. Aalen, O.S. Andersen, M. Krogh, H.H. Odland, M. Stugaard, E.W. Remme, S.F. Nagueh, S. Nakatani, O.A. Smiseth (Suita, Osaka, JP; Oslo, NO; Houston, US)
- 09:42 › Clinical importance of the magnitude of left ventricular suction in heart failure: quantitative evaluation by vector flow mapping 416
S. Kikuchi, K. Muto, J. Yamamoto, S. Kitada, K. Yamamoto, K. Wakami, T. Sugiura, N. Ohte (Nagoya, JP)
- 09:51 › Predictive value of diastolic dysfunction severity on long-term survival in heart failure patients with mid-range or reduced left ventricular ejection fraction 417
K. Hu, D. Liu, K. Lau, C. Hammel, T. Salinger, S. Herrmann, G. Ertl, S. Frantz, S. Stoerk, P. Nordbeck (Wuerzburg, DE)

08:30 - 10:00

WORKSHOP

TOE - ROOM

Focus on critical patient in Coronary Care Unit (CCU)**Workshop on Transoesophageal Echocardiography (TOE)**

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

08:30 › Presenters:

H. Skinner (Nottingham, GB); A. Moreo (Milan, IT)

418

10:00 - 11:00

ABSTRACT - SESSION

AGORA

Young Investigator Award session - Basic Science

Chairperson(s): O. A. Smiseth (Oslo, NO); T. H. Marwick (Melbourne, AU)

Judge(s): M. Scherrer-Crosbie (Philadelphia, US); R. Senior (London, GB); J. D'hooge (Leuven, BE); S. R. Underwood (London, GB)

Four finalists in competition for the , "Young Investigator Award session - Basic Science, "Prize". Sessions will be chaired by senior faculty members and presentations evaluated by a panel of renowned judges.

Abstract Session = Oral Communication

10:00 › Epicardial adipose tissue and transforming growth factor-beta1 - risk factors of atrial fibrillation in patients with metabolic syndrome. 419

E. Zaslavskaya, V.A. Ionin, A.N. Morozov, E.I. Baranova, S.M. Yashin, S.E. Nifontov (Saint Petersburg, RU)

10:15 › Ultrasound molecular imaging of arterial endothelial prothrombotic changes produced by BCR-ABL-targeted tyrosine kinase inhibitors 420

Y. Latifi, F. Moccetti, A. Xie, M. Wu, W. Packwood, Q. Yue, Z. Ruggeri, J. Chen, J. Lopez, B. Druker, J. Lindner (Zurich and Basel, CH; Portland, La Jolla and Seattle, US)

10:30 › Afterload sensitivity of global versus septal wasted work ratio: implications for prediction of cardiac resynchronization therapy response 421

E. Willemsen, P.R. Huntjens, A. Lyon, T.J. Koopsen, T. Delhaas, F.W. Prinzen, J. Lumens (Maastricht, NL)

10:45 › Prognostic effect and modulation of cardiac sympathetic function in heart failure patients treated with cardiac resynchronization therapy 422

R. Ilhao Moreira, A. Abreu, G. Portugal, L. Oliveira, I. Rodrigues, M. Oliveira, I. Rodrigues, M. Coutinho Cruz, P. Silva Cunha, V. Santos, H. Santa Clara, R. Cruz Ferreira, M. Mota Carmo (Lisbon, PT)

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS

Cardiac mechanics: from healthy to disease

Chairperson(s): A. G. Fraser (Cardiff, GB); T. Ishizu (Ibaraki, JP)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00

Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00

Determinants of myocardial work in a healthy population: a strain echocardiography study 423

V. Evola, R. Sorrentino, R. Esposito, M. Scalamogna, M. Avvedimento, L. La Mura, C. Santoro, G. Novo, M. Galderisi (Palermo and Naples, IT)

Septal dysfunction is driving development of heart failure in left bundle branch block 424

J. Aalen, H. Izci, O.J. Sletten, J. Duchenne, C.K. Larsen, P. Storsten, P.A. Sirnes, H. Skulstad, E.W. Remme, J.U. Voigt, O.A. Smiseth (Oslo and Moss, NO; Leuven, BE)

In vivo detection of cardiac shear waves using ultra-high frame rate ultrasound imaging in the human left ventricle 425

A.M. Petrescu, P. Santos, J. Pedrosa, M. Orlowska, V. Komini, B. Chakraborty, J.-U. Voigt, J.D'hooge (Leuven, BE)

Myocardial constructive work is additive to volumetric response to CRT in the prediction of cardiac mortality after CRT implantation. 428

E. Galli, A. Hubert, V. Le Rolle, A. Hernandez, P. Mabo, C. Leclercq, E. Donal (Rennes and RENNES, FR)

Morning Sessions

Left and right atrial strain in healthy italian caucasian children by two dimensional speckle-tracking echocardiography 429
M. Cantinotti, E. Franchi, N. Assanta, G. Corana, P. Marchese, C. Viacava, P. Medino, M. Scalese, G. Santoro (Massa, IT)

SINS study: Strain IN Steinert 430
T. Levasseur, T. Le Tourneau, C. Selton-Suty, J. Costa, R. Jaussaud, Q. Labarre, B. Gilbert-Dussardier, G. Guyader, C. Bouleti, R. Garcia (Reims, Nantes, Nancy, Poitiers and Paris, FR)

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS

New roles for cardiac imaging 2018: state of the art

Chairperson(s): D. Andreini (Milan, IT); A. Kitsiou (Athens, GR)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00

Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00

CT coronary angiography for all patients presenting with stable chest pain - UK NICE 2016 guidelines. 431
S. J. Denny, A. Papachristidis, G. F. Vaughan, E. Avornyo, J. Byrne, M. Monaghan, K. Alfakih (London, GB)

Towards a semi-quantitative approach to detect myocardial perfusion defects with computed tomography 432
A. Ruiz Munoz, F. Valente, J.F. Rodriguez-Palomares, A. Guala, L. Dux-Santoy, S. Aiguade, I. Otaegui, L. Gutierrez, L. Galian, R. Fernandez, M.T. Gonzalez-Alujas, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)

Surgical repair of anteroapical left ventricular aneurysms guided with multislice computed tomography: survival determinants and improvement of heart failure symptoms 433
N. Solowjowa, Y. Hrytsyna, A. Meyer, O. Nemchyna, M. Pasic, V. Falk, C. Knosalla (Berlin, DE)

CT based assessment of left ventricular strain: validation against echocardiography 434
B. Szilveszter, A. I. Nagy, B. Vattay, A. Bartykowszki, M. Kolosvary, A. Toth, F. I. Suhai, A. Astrid, B. Merkely, P. Maurovich-Horvat (Budapest, HU)

Semi-automatic and semi-quantitative assessment of myocardial perfusion with computed tomography 435
A. Ruiz Munoz, F. Valente, J.F. Rodriguez-Palomares, A. Guala, L. Dux-Santoy, S. Aiguade, I. Otaegui, L. Gutierrez, L. Galian, R. Fernandez, M.T. Gonzalez-Alujas, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)

Improvement of cardiac sympathetic nerve activity after transcatheter aortic valve implantation in patients with symptomatic severe aortic stenosis 436
T. Onishi, T. Sawada, K. Uzu, N. Takahashi, T. Inoue, Y. Taniguchi, Y. Yasaka, H. Kawai (Himeji, JP)

Echocardiography pitfalls and PET as reclassification tool in infective endocarditis 437
J.J. Rodriguez Arias, M. Pujol-Lopez, R. San Antonio, J. Ambrosioni, M. Hernandez-Meneses, D. Fuster, E. Quintana, B. Vidal, H.C.B. Grupo De Trabajo De Endocarditis (Barcelona, ES)

18 FDG PET imaging in dilated cardiomyopathy: correlation with disease severity, 2D strain echo and magnetic resonance imaging 438
M. Vivien, A. Pallardy, T. Eugene, B. Guyomarch, J.M. Serfaty, J.N. Trochu, N. Piriou (Nantes, FR)

10:10 - 10:55 HOW-TO SESSION ROME

Step by step Transoesophageal Echocardiogram (TOE)
Chairperson(s): J. Dreyfus (Saint-Denis, FR)

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

10:10 > Presenter: 439
H. M. Mahmoud-Elsayed (Aswan, EG)

11:00 - 12:30 MAIN SESSION MILAN

Imaging the aorta and the aortic valve
Chairperson(s): A. Evangelista Masip (Barcelona, ES); O. Chioncel (Bucuresti, RO)

11:00 > How to assess the ascending aorta. 440
N. H. Andersen (Risskov, DK)

11:22 > How to assess aortic stenosis. 441
P. Pibarot (Quebec, CA)

11:45 > How to assess aortic regurgitation. 442
E. Holte (Trondheim, NO)

12:07 > What do the 2017 guidelines recommend. 443
H. Baumgartner (Muenster, DE)

11:00 - 12:30 SPECIAL SESSION ROME

Cardiac Imaging Quiz - Great Mysteries of Cardiac Imaging

Chairperson(s): B. Cosyns (Brussels, BE); D. Muraru (Padua, IT)

This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons

11:00 > The most challenging diagnostic riddles with Cardiac Computed Tomography. 444
G. Pontone (Milan, IT)

11:30 > The greatest enigmas of Echocardiography. 445
R. Fontes Carvalho (Porto, PT)

12:00 > Diagnostic conundrums where CMR saved the day. 446
C. Bucciarelli-Ducci (Bristol, GB)

11:00 - 12:30 CLINICAL IMAGING PALERMO

Heart Failure with left ventricular systolic dysfunction: beyond ejection fraction

This programme is supported by SERVIER in the form of an educational grant. The scientific programme has not been influenced in any way by its sponsor.

Chairperson(s): M. Metra (Brescia, IT); B. A. Popescu (Bucharest, RO)

11:01 > The new ejection-fraction based ejection fraction: lights and shadows. 448
H. Dokainish (Hamilton, CA)

11:22 > Will global longitudinal strain replace ejection fraction in the clinical practice? 449
G. A. Derumeaux (Creteil, FR)

11:45 > The role of advanced cardiac imaging in heart failure with reduced ejection fraction. 450
T. H. Marwick (Melbourne, AU)

12:07 > Novel insights of advanced pharmacological therapies. 451
M. Frigerio (Milan, IT)

11:00 - 12:30

TEACHING COURSE

TURIN

Basics of 2D cardiac assessment**Chairperson(s): G. L. Nicolosi (Cordenons, IT); K. Kusunose (Tokushima, JP)***Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.*

- | | | |
|---------|---|-----|
| 11:00 › | Left ventricular size and systolic function.
<i>K. Addetia (Chicago, US)</i> | 452 |
| 11:22 › | Left ventricular diastolic function.
<i>C.C. Beladan (Bucharest, RO)</i> | 453 |
| 11:45 › | Right ventricular size and function.
<i>E. Surkova (London, GB)</i> | 454 |
| 12:07 › | Atrial size and function.
<i>L. Thomas (Sydney, AU)</i> | 455 |

11:00 - 12:30

DEBATE SESSION

NAPLES

Imaging heart valve disease: bloody session**Chairperson(s): L. A. Pierard (Liege, BE); E. Schwammenthal (Tel Hashomer, IL)**

- | | | |
|---------|---|-----|
| 11:00 › | First round: the role of Computed Tomography/nuclear is growing
<i>M. Dweck (Edinburgh, GB)</i> | 456 |
| 11:22 › | Second round: cardiovascular magnetic resonance is now mandatory.
<i>S. E. Petersen (London, GB)</i> | 457 |
| 11:45 › | Third round: echo is enough.
<i>V. Delgado (Leiden, NL)</i> | 458 |
| 12:07 › | Open "free fight".
<i>R. S. Von Bardeleben (Mainz, DE)</i> | 459 |

11:00 - 12:30

SYMPOSIUM

GENOA

Imaging for the assessment of the left atrium**Joint session with the Asia-Pacific Association of Echocardiography (AAE)****Chairperson(s): L.E. Sade (Ankara, TR); J. K. Oh (Rochester, US)**

- | | | |
|---------|---|-----|
| 11:00 › | Structural and functional measurements.
<i>M. Rosca (Bucuresti, RO)</i> | 460 |
| 11:22 › | Structural predictors of recurrence of atrial fibrillation after ablation.
<i>Y.J. Kim (Seoul, KR)</i> | 461 |
| 11:45 › | How to select the appropriate patient for cardioversion?
<i>H. Jung (Seoul, KR)</i> | 462 |
| 12:07 › | Assessment of cavity pressure.
<i>M. Henein (Umea, SE)</i> | 463 |

11:00 - 12:30 SYMPOSIUM VENICE

Rheumatic valve disease**Joint session with the Indian Academy of Echocardiography (IAE)****Chairperson(s): R. Gupta (Lucknow, IN); E. Plonska-Gosciniak (Szczecin, PL)**

- 11:00 › Pearls and pitfalls in the assessment of rheumatic valve diseases. 464
S. Shrivastava (New Delhi, IN)
- 11:22 › Why has a 3-D approach become the standard of care for the echocardiographic quantification of mitral stenosis? 465
I. A. Sebag (Montreal, CA)
- 11:45 › Echocardiography-guided approach to mitral stenosis. 466
S. Parashar (Noida, IN)
- 12:07 › Is this rheumatic valve disease? 467
A. Salustri (Doha, QA)

11:00 - 12:30 CLINICAL CASES AGORA

Masses and sources of emboli: rare and dramatic cases II**Chairperson(s): P. Caso (Naples, IT); K. Hristova (Sofia, BG)**

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience.

The main objective of the session is to learn from challenging clinical case scenarios.

- 11:00 › Panel of experts: 468
S. Matskeplishvili (Moscow, RU); L. Perez De Isla (Madrid, ES)
- 11:00 › Peripartum cardiomyopathy: report of a catastrophic case of a poorly understood disease › 469
A.S. Felix, M.L. De Alcantara, A.P.R.V. Siciliano, R.R. Silva, C.C. Firmida, J.S. Matos, G.A. Guenka, R.C. Silva, L.F.A. Cordeiro, D.L.C. Morales, C. Musa, L.A.B.M. Filho, G.S. Duque (Rio de Janeiro, BR)
- 11:09 › Transjugular intrahepatic portosystemic shunt (TIPS) complicated by right-sided atrial thrombus and pulseless arrest 470
F. Al-Saffar, S. Naidu, S. Wilansky (Scottsdale, US)
- 11:18 › A case of right atrial angiosarcoma complicated with severe pericardial effusion and pulmonary embolism 471
G. Terlizze, I.A. Gueli, L. Villanova, E. Picoi, A. Pizzuto, R. Liga, F. Del Re, R. Pedrinelli, E. Orsini (Pisa, IT)
- 11:27 › A rare cause of ST-segment elevation. 472
J.P. Alves Guimaraes, J. Trigo, F. Goncalves, M. Moz, S. Borges, J.I. Moreira (Vila Real, PT)
- 11:36 › Primary intimal sarcoma of the pulmonary veins › 473
S. Anilkumar, A. Sulaiman, A. Al Mulla, E. Massad, I. Al-Bozom, A. Salustri (DOHA and Doha, QA)
- 11:45 › Giant interatrial septum, a very uncommon manifestation of mycosis fungoides 474
P. Lerena, C. Ruisanchez Villar, S. Gonzalez Lizarbe, D. Serrano Lozano, M. Cobo Belaustegui, A. Sarraalde Aguayo, J.M. Cuesta Cosgalla, F. Gonzalez Vilchez, J. Ruano Calvo, J.A. Vazquez De Prada Tiffe (Santander, ES)
- 11:54 › Primary cardiac low grade myxoid malignant peripheral nerve sheath tumor: 3 years follow up of a patient twice operated and treated with chemotherapy. 475
K. Starzyk, E. Pietrzyk, E. Pietrzyk, B. Wozakowska-Kaplon (Kielce, PL)
- 12:03 › Acquired left ventricular pseudoaneurysm in an infant 476
A. Horton, H.N. Mufti, T.N. Doctor, Y. D'udekem, S.J.V. Rao (Melbourne, AU)
- 12:12 › A case of a mitral valve blood cyst. 477
M. S. Shehata, H.S. Abd El Gawad, R.A. Abayazeed, E. Elsharkawy, M.A. Abd El Hay (Alexandria, EG)
- 12:21 › The "giant ring" at the right atrium 478
Y. Z. Oh, W. Ruan, M. R. Amanullah, S. H. Ewe, Z. P. Ding, T. Chua (Singapore, SG)

11:00 - 12:30

WORKSHOP

TOE ROOM

Prosthetic valves

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

11:00 › Presenters:

A. Bernard (Tours, FR); M.L. de Alcantara (Rio De Janeiro, BR)

479

Lunch Time Sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

PALERMO

Groundbreaking innovations in echo and case examples of better patient care.
Sponsored by Philips Healthcare
Chairperson(s): M. J. Monaghan (London, GB); M. Pepi (Milan, IT)
Learning objectives: *Diagnostic and therapeutic impact of recently introduced echo innovations on patient care will be discussed during this session.*
Worldwide echo experts will focus on the clinical benefits that may result from:
fully automated, robust and validated deformation assessment
fully automated, dynamic, 3D echo based left heart volumetry
photorealistic imaging (allowing true "anatomic like" view of the heart structures)
Broad spectrum of clinical topics covering mainly valvular heart disease and heart failure of different origin would be reviewed to illustrate the clinical impact of tools mentioned above.

12:45 ›	Why, how and when - deformation imaging unraveled. J. U. Voigt (Leuven, BE)	480
13:01 ›	Case presentation: automated, dynamic 3D left heart volumetry in mitral valve regurgitation. M. Pepi (Milan, IT)	481
13:07 ›	Management of valvular heart disease and heart failure - can we do better? G. La Canna (Rodengo Saiano, IT)	482
13:23 ›	Case presentation: therapeutic decision based on photorealistic imaging. G. La Canna (Rodengo Saiano, IT)	483
13:30 ›	How photorealistic imaging is changing structural heart interventions. R. S. Von Bardeleben (Mainz, DE)	484

12:45 - 13:45

SATELLITE SYMPOSIUM

TURIN

How to use advanced ultrasound technologies in daily routine examinations
Sponsored by Canon Medical Systems Europe
Chairperson(s): H.-J. Nesser (Linz, AT)
Learning objectives: *Be informed how latest ultrasound technologies support cardiac function and remodeling assessment based on clinical cases.*

12:45 ›	How to assess and follow up cardiac function by ultrasound in oncology. A. Hagendorff (Leipzig, DE)	485
13:05 ›	How to interpret cardiac function and remodelling in athletes. G. E. Pieles (Bristol, GB); M. Sitges (Barcelona, ES)	486
13:25 ›	How can we apply today's ultrasound technology in the daily routine: various case studies. T. Binder (Vienna, AT)	487

12:45 - 13:45

SATELLITE SYMPOSIUM

NAPLES

Contrast echocardiography in clinical practice: Proven efficacy in different clinical settings.**Sponsored by Bracco****Chairperson(s): S. Kaul (Portland, US)****Learning objectives:**

- To understand the need and clinical benefit for the use of ultrasound contrast agents
- To understand the current clinical evidences and guideline recommendations for contrast echocardiography
- To understand the cost saving potential of the use of contrast agents in echocardiography
- To understand the consequence of stress echocardiography for the management of patients with suspected coronary artery disease

12:45 › Evidence from clinical studies and the 2017 EACVI contrast echocardiography guideline for the use of contrast enhancement in different clinical settings. 488

N. Gaibazzi (Parma, IT)

13:15 › New clinical data to demonstrate the clinical effectiveness and cost efficiency of contrast-enhanced stress echocardiography in patients with chest pain. 489

R. Senior (London, GB)

12:45 - 13:45

MODERATED POSTERS

MODERATED ePOSTERS 1

Clinical cases moderated - Masses and sources of emboli in young patients**Chairperson(s): E. Chammas (Beirut, LB); R. Fontes Carvalho (Porto, PT)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 to 14:30**Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45*

What can mass with a young lady's heart 490

D. Chen, J. Isbister, B. Lambert, J.Y. Leong, L.L. Lee (Sydney, AU)

Renal failure with a heavy heart: extensive cardiac calcification in a young patient with renal disease. 491

S. Khan, I. Kasouridis (Camberley, GB)

Beyond myxomas - a benign tumour on the anterior mitral valve leaflet - a rare case of lipoma. 492

M.A. Zurawska, J. Kuriata, J. Zielinski, A. Wojcik, H. Siudalska, H. Szwed, M. Kusmierczyk (Warsaw, PL)

Acute myocardial infarction as a first presentation of left atrial myxoma in a young patient 493

A. Ali, S.H. Raza, T. Abbas, N. Ahmad, K. Albahadely (Ismailia, EG; Punjab, PK; Baghdad, IQ)

Mitral valve fibroelastoma presenting with acute myocardial infarction 494

T. Keber, M. Sustersic, R. Zbacnik, J. Jeruc, M. Cvijic (Slovenj Gradec and Ljubljana, SI)

Chronic thromboembolic pulmonary hypertension disguised as right atrial mass in a young lady 495

G. Fady, D. Jenkins D, H. Sabbour, A. Mohan, F. Albakshy (Al Ain and Abu Dhabi, AE; Cambridge, GB)

A strange case of multiple pulmonary artery stenoses and occlusions in a young man: the role of multimodal imaging 496

D. M. Dorobantu, L. Predescu, A. Calin, P. Platon, T. Constantinescu, M. Vasile, C. Ghinghina, B. Popescu, I.M. Coman (Bucharest, RO)

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 2

Clinical cases moderated - Unusual congenital heart disease cases presenting in adults: the growing role of multimodality imaging

Chairperson(s): L. A. Smith (Winchester, GB); G. Scognamiglio (Napoli, IT)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 to 14:30.

Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

An extra vessel in the atrial septum? multimodality non-invasive approach to giant coronary fistula draining in right atrium. 497

B. Mabritto, C. Lario, R. Riccardi, E. Piovano, A. Pizzuti, F. Cali' Quaglia, M. Bianco, A. Milan, S. Cirillo, M.R. Conte (Turin, Pinerolo and Orbassano, IT)

Hurdles at each step : aberrant lobar pulmonary artery in an infant with severe aortic stenosis and coarctation 498
S. H. Naganur (CHANDIGARH, IN)

Exceptional survival into the sixth decade with unpalliated double inlet right ventricle, severe pulmonary stenosis and MAPCAs: a game of complications 499
D. M. Dorobantu, C. Calin, R. Badea, B.A. Popescu, C. Ghinghina (Bucharest, RO)

A rare cause of angina and exertional dyspnea in a young male. 500
W. S. Al Shamkhany, A. Yousif, C. Varma, L. Lee (Birmingham, GB)

A ball-like left ventricle with Brugada ECG pattern: an unusual case of isolated left ventricle apical hypoplasia 501
A. Cecchetto, C. Ciccio, A. Costa, L. Lanzoni, A. Chiampan, C. Dugo, G. Carbognin, E. Barbieri, S. Bonapace (Negrar-Verona, IT)

Aortic arch aneurysm early after coarctation repair in the neonatal period 502
A. R. Sousa, S.C. Cordeiro, R.S. Ataide, A. Teixeira, J.P. Neves, R.S. Anjos (Lisbon, PT)

Solving the mystery of the third ventricle 503
M. Saber Hafez (Cairo, EG)

Afternoon Sessions

14:00 - 15:30 MAIN SESSION MILAN

Cardiac exercise imaging: friend or foe?
Chairperson(s): H. Skulstad (Oslo, NO); S. Marechaux (Lomme, FR)

- | | | |
|---------|--|-----|
| 14:00 › | In hypertrophic cardiomyopathy.
<i>A. Hagendorff (Leipzig, DE)</i> | 504 |
| 14:22 › | In valve diseases.
<i>P.B. Bertrand (Genk, BE)</i> | 505 |
| 14:45 › | In right ventricular failure.
<i>A. Van De Bruaene (Leuven, BE)</i> | 506 |
| 15:07 › | In athletes.
<i>A. La Gerche (Melbourne, AU)</i> | 507 |

14:00 - 15:30 SYMPOSIUM ROME

The imaging challenge: patients with multiple valve disease

Joint session with the Cardiovascular Imaging Department of the Brazilian Society of Cardiology (DIC)
Chairperson(s): P. Unger (Brussels, BE); J. L. Pena (Belo Horizonte, BR)

Mobile App - Vote and Ask a Question

This is a mobile app interactive session. Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons

- | | | |
|---------|--|-----|
| 14:00 › | How to evaluate a patient with more than one significant diseased valve?
<i>M. Vieira (Sao Paulo, BR)</i> | 508 |
| 14:22 › | Multimodality imaging in patients with multiple valve disease.
<i>J.L. Cavalcante (Pittsburgh, US)</i> | 509 |
| 14:45 › | Multiple valve disease; complete surgery or a stepwise approach?
<i>E. Holte (Trondheim, NO)</i> | 510 |
| 15:07 › | Tricuspid regurgitation combined with left-sided valve disease.
<i>J. Bergler-Klein (Vienna, AT)</i> | 511 |

14:00 - 15:30 CLINICAL IMAGING PALERMO

Cardiac-oncology (C-O) services : rationale, organization and implementation
Chairperson(s): R. Asteggiano (Turin, IT); C. Cadeddu Dessalvi (Monerrato, IT)

- | | | |
|---------|---|-----|
| 14:00 › | The starting point: ESC position paper on cardiovascular toxicity in cancer patients.
<i>T. Lopez Fernandez (Madrid, ES)</i> | 512 |
| 14:22 › | Why we need a C-O Services: the background.
<i>T. M. Suter (Bern, CH)</i> | 513 |
| 14:45 › | Objectives of C-O Services in the clinical practice.
<i>P. Lancellotti (Liege, BE)</i> | 514 |
| 15:07 › | Role of cardiac imaging in C-O services - present and future outlook.
<i>M. Galderisi (Naples, IT)</i> | 515 |

14:00 - 15:30

TEACHING COURSE

TURIN

Valvular heart disease 1**Chairperson(s): F. Antonini-Canterin (Pordenone, IT); S. Mihaila (Bucuresti, RO)***Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.*

- 14:00 › Mitral stenosis. 516
M.L. de Alcantara (Rio De Janeiro, BR)
- 14:22 › Mitral regurgitation. 517
J. Hung (Boston, US)
- 14:45 › Aortic stenosis. 518
A. Calin (Bucharest, RO)
- 15:07 › Aortic regurgitation. 519
C. Fernandez-Golfin (Madrid, ES)

14:00 - 15:30

SYMPOSIUM

NAPLES

Hand-Held or FOCUS cardiac ultrasound**Joint session with Echocardiographic Society of Serbia****Chairperson(s): N. Cardim (Lisbon, PT); A. N. Neskovic (Belgrade, RS)**

- 14:00 › Acute dyspnea and shock. 520
L. Gargani (Pisa, IT)
- 14:22 › Cardiac arrest and peri-arrest. 521
R. Vidakovic (Zemun, RS)
- 14:45 › Assessment of volume status. 522
S. Price (London, GB)
- 15:07 › Training and core curriculum. 523
I. Stankovic (Belgrade, RS)

14:00 - 15:30

SYMPOSIUM

GENOA

Genetic cardiomyopathies**Joint session with the Korean Society of Echocardiography (KSE)****Chairperson(s): S. J. Rim (Seoul, KR); G. Habib (Marseille, FR)**

- 14:00 › Cardiac imaging in variety presentation of cardiomyopathy. 524
D. W. Sohn (Seoul, KR)
- 14:22 › Dilated cardiomyopathies - What can imaging add? 525
E. Donal (Rennes, FR)
- 14:45 › Septal reduction for obstructive hypertrophic cardiomyopathy (HCM) - Alcohol or knife? 526
S.C. Lee (To Be Confirmed, KR)
- 15:07 › Left ventricular non compaction: really a distinct cardiomyopathy? 527
G. Habib (Marseille, FR)

14:00 - 15:30 SYMPOSIUM VENICE

Echocardiography for preventive cardiology: when and why?

Joint session with the Japanese Society of Echocardiography (JSE)

Chairperson(s): S. Nakatani (Takarazuka, JP); V. M. Parato (San Benedetto Del Tronto, IT)

- 14:00 › Do we need screening by echo patients with diabetes mellitus? 528
K. Dohi (Tsu, JP)
- 14:22 › Do we need screening by echo patients with rheumatologic diseases? 529
L.E. Sade (Ankara, TR)
- 14:45 › Do we need screening by echo patients at risk for arrhythmias? 530
H. Yamada (Tokushima, JP)
- 15:07 › Do we need screening by echo patients at risk for cardiovascular diseases. 531
B. Cosyns (Brussels, BE)

14:00 - 15:30 RAPID FIRE ABSTRACTS AGORA

New insights in mitral regurgitation

Chairperson(s): B. Iung (Paris 18, FR); M. Vannan (Atlanta, US)

Fast paced and interactive session with key messages of 10 abstracts.

Rapid Fire Abstracts session = Oral Communication

- 14:00 › Panel of experts: 532
A. Apor (Budapest, HU); E. Martins (Limoges, FR)
- 14:00 › A novel doppler parameter for quantification of severity of mitral regurgitation: left ventricular early inflow outflow index 533
M. Dhavalagimath, A. Pawar, D. Patil, A. Patel, R. Parikh, G. Sabnis, H. Shah, C. Lanjewar, P. Kerkar (NASHIK, Mumbai and Bijapur, IN)
- 14:09 › Prediction of outcome in primary mitral regurgitation using the average pixel intensity method 534
V. Kamoen, M. El Haddad, T. De Backer, M. De Buyzere, F. Timmermans (Ghent, BE)
- 14:18 › Novel one-click 3D PISA software improves mitral regurgitation assessment compared to 2D TTE and TEE-using cMR as reference 535
S. Militaru, H. Langet, O. Bonnefous, K. Hami, D. Vancraeynest, A. Pasquet, S. Allaire, A. Goncalves, S. Dianis, J.L. Vanoverschelde, A.C. Pouleur, B.L. Gerber (Brussels, BE; Paris, FR; Andover, US)
- 14:27 › Life-threatening ventricular arrhythmias in patients with mitral annulus disjunction are not dependent on mitral valve prolapse 536
L.A. Dejgaard, E.T. Skjolsvik, O.H. Lie, M. Ribe, M.K. Stokke, F. Hegbom, E.S. Scheirlynck, E. Gjertsen, K. Andresen, T.M. Helle-Valle, E. Hopp, T. Edvardsen, K.H. Haugaa (Oslo and Drammen, NO)
- 14:36 › Heterogeneity of segmental left ventricular deformation in patients with mitral valve prolapse as potential substrate of ventricular arrhythmias 537
A.C. Guta, R.C. Ochoa Jimenez, V. Guida, P. Aruta, R. Tenaglia, M.P. Marra, M. De Lazzari, S. Iliceto, L.P. Badano, D. Muraru (Bucharest, RO; New York, US; Milan and Padua, IT)
- 14:45 › Potential echocardiographic markers of arrhythmic burden in patients with mitral valve prolapse and mild regurgitation 538
R.C. Ochoa-Jimenez, A.C. Guta, V. Guida, M. Previato, P. Aruta, C. Palermo, S. Figliozzi, M.P. Marra, A. Cipriani, S. Iliceto, L.P. Badano, D. Muraru (New York, US; Bucharest, RO; Padua, IT)
- 14:54 › Sport practice and physical activity after mitral valve repair in primary mitral regurgitation 539
A. Blanc, Y. Lavie-Badie, O. Lairez, E. Cariou, P. Fournier, A. Poenar, B. Marcheix, C. Cron, E. Grunenwald, J. Porterie, F. Labaste, M. Galinier, D. Carrie (Toulouse, FR)
- 15:03 › Left atrial dynamics during exercise in mitral regurgitation of primary and secondary origin: insights from exercise echocardiography combined with gas exchange analysis 540
T. Sugimoto, F. Bandera, G. Generati, E. Alfonzetti, M. Barletta, M. Guazzi (Tsu, JP; Milan, IT)

Afternoon Sessions

- | | | |
|---------|---|-----|
| 15:12 › | Variations in left atrial volume during exercise among asymptomatic patients with significant degenerative mitral regurgitation
<i>A. Abelow, Y. Shapira, H. Ofek-Epstein, S. Kazum, I. Yedidya, S. Schwartzberg, A. Sagie, M. Vaturi (Petah Tikva, IL)</i> | 541 |
| 15:21 › | Mitral valve disease in genetically confirmed connective tissue disease: data from a large Swiss Cohort
<i>F.C. Bonassin Tempesta, C. Attenhofer Jost, M. Possner, L. Meier, C. Gruner, A. Oxenius, T. Seeliger, G. Matyas, M. Rohrbach, J. Pavicevic, M. Greutmann (Zurich, CH)</i> | 542 |

14:00 - 15:30	WORKSHOP	TOE ROOM
---------------	----------	----------

Focus on Mitraclip

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

- | | | |
|---------|---|-----|
| 14:00 › | Presenters:
<i>E. Agricola (Milano, IT); N. Ajmone Marsan (Leiden, NL)</i> | 543 |
|---------|---|-----|

15:30 - 16:30	ABSTRACT SESSION	AGORA
---------------	------------------	-------

Young Investigator Award session - Clinical Science



The Roelandt's Young Investigator Award

Chairperson(s): M. J. Monaghan (London, GB); P. Lancellotti (Liege, BE)

Judge(s): A. G. Fraser (Cardiff, GB); A. Gimelli (Pisa, IT); S. Nakatani (Takarazuka, JP); J. D. Thomas (Chicago, US)

Four finalists in competition for the "Young Investigator Award session - Clinical Science, " Prize.

Sessions will be chaired by senior faculty members and presentations evaluated by a panel of renowned judges.

Abstract Session = Oral Communication

- | | | |
|---------|---|-----|
| 15:30 › | Development and prognostic validation of partition values to grade right ventricular dysfunction severity with three-dimensional echocardiography
<i>A.C. Guta, D. Muraru, L.P. Badano, Y. Nagata, P. Aruta, R.C. Ochoa Jimenez, E. Surkova, K. Otani, D. Genovese, Y. Otsuji, D. Azzolina, M. Takeuchi (Padua, IT; Kitakyushu, JP; New York, US; London, GB)</i> | 544 |
| 15:45 › | How do myocardial shear waves, measured with ultra-high frame rate echocardiography, differ between volunteers and patients with cardiac amyloidosis?
<i>A.M. Petrescu, P. Santos, M. Orlowska, J. Pedrosa, M. Dobrovie, S. Bezy, M. Cvijic, J. Duchenne, M. Delforge, J. D'hooge, J.-U. Voigt (Leuven, BE)</i> | 545 |
| 16:00 › | Epicardial adipose tissue is linked to impaired left atrial reservoir function and increased the risk of postoperative atrial fibrillation in severe aortic stenosis
<i>J. Mancio, G. Pessoa-Amorim, W. Ferreira, M. Carvalho, N. Ferreira, L. Vouga, V. Gama Ribeiro, I. Falcao-Pires, A. Leite-Moreira, N. Bettencourt, R. Fontes-Carvalho (Vila Nova de Gaia and Porto, PT)</i> | 546 |
| 16:15 › | Comparison between stress cardiac computed tomography perfusion versus fractional flow reserve CT derived in the evaluation of suspected coronary artery disease: PERFECTION prospective study
<i>A. Baggiano, M. Guglielmo, G. Muscogiuri, L. Fusini, M. Soldi, D. Andreini, S. Mushtaq, E. Conte, A. Annoni, A. Formenti, E. Mancini, A.I. Guaricci, A.L. Bartorelli, M. Pepi, G. Pontone (Milan and Bari, IT)</i> | 547 |

15:30 - 16:30

MODERATED POSTERS

ePOSTERS 1

New insight in the evaluation of myocardial systolic and diastolic function**Chairperson(s): M. Metra (Brescia, IT); L. Ernande (Paris, FR)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00
Presentation and discussion moderated by the chairpersons take place between 15:30 - 16:30*

Association of different manifestations of exercise reserve with outcome in heart failure with preserved ejection fraction › 548

M. Przewlocka-Kosmala, T.H. Marwick, W. Kosmala (Wroclaw, PL; Melbourne, AU)

The assessment of left ventricular diastolic function in atrial fibrillation by routine diastolic parameters 549

M.N. Kim, H.D. Kim, D.H. Cho, J.M. Shim, J.I. Choi, S.M. Park, Y.H. Kim, W.J. Shim (Seoul, KR)

Kinetics patterns of collagen synthesis in dilated cardiomyopathy patients with diastolic dysfunction 550

S. Wisniewska-Smialek, E. Dziewiecka, K. Holcman, A.G.A.T.A. Lesniak-Sobelga, M. Hlawaty, M. Kostkiewicz, P. Podolec, P. Rubis (Krakow, PL)

The older the stiffer? Age dependency of myocardial shear wave velocities, measured with ultra-high frame rate echocardiography 551

A.M. Petrescu, P. Santos, M. Orlowska, J. Pedrosa, B. Chakraborty, S. Bezy, M. Cvijic, J. D'hooge, J.-U. Voigt (Leuven, BE)

Left ventricular global work is superior to global strain for assessing ventricular function during elevated afterload 552

O.J. Sletten, J. Aalen, C. K. Larsen, P. Storsten, P. A. Sirnes, E. W. Remme, J. Hisdal, H. Skulstad, O. A. Smiseth (Oslo and Moss, NO)

Left atrial conduit function and functional capacity in heart failure patients 553

J. Zanaboni, F. Ceruti, G. Binda, A. Panizza, A. Giubertoni, C. Piccinino, I. Bellacosa, A. Degiovanni, P. Marino (Novara, IT)

Obesity, myocardial function, geometry, and prognosis in acute heart failure 554

C. S. Park, J.J.P. Park, J.J.P. Park, J.H.P. Park, G.Y.C. Cho, Y.E.Y. Yoon, Y.-J.C. Choi (Seoul, Seongnam and Daejeon, KR)

Prognostic value of frailty and diastolic dysfunction in elderly patients 555

K. Kusunose, H. Yamada, S. Nishio, Y. Torii, Y. Hirata, Y. Saijo, M. Sata (Tokushima, JP)

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 2

Cardiac Computed Tomography: present and future**Chairperson(s): A. J. H. A. Scholte (Leiden, NL); L. J. Shaw (Atlanta, US)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00
Presentation and discussion moderated by the chairpersons take place between 15:30 - 16:30*

Computed tomography for transcatheter tricuspid valve development 556

P.M. Chiaroni, J. Ternacle, J.F. Deux, M. Boukantar, G. Mouillet, E. Riant, J.L. Dubois-Rande, E. Teiger, P. Lim, R. Gallet (Creteil, FR)

Computed tomography imaging of partial pericardial defects and concomitant anomalies. 557

G. Staskiewicz, E. Czekańska-Chehab, E. Siek, S. Uhlig, P. Przybylski, A. Drop (Lublin, PL)

Plaque volume quantification by coronary computed tomography angiography using intravascular ultrasound as reference standard: a comparison between standard vs last generation ct scan 558

E. Conte, S. Mushtaq, L. Li Piani, A. Baggiano, M. Guglielmo, P. Ravagnani, D. Trabattoni, P. Montorsi, G. Pontone, E.M. Mancini, L. Di Odoardo, E. Melotti, A.L. Bartorelli, M. Pepi, D. Andreini (Milan, IT)

Diagnostic accuracy of low dose dynamic stress computed tomography myocardial perfusion (CTP) in intermediate- to-high-risk patients for suspected coronary artery disease (CAD) 559

A. Baggiano, M. Guglielmo, G. Muscogiuri, L. Fusini, M. Soldi, D. Andreini, S. Mushtaq, E. Conte, A. Annoni, A. Formenti, E. Mancini, A.I. Guaricci, A.L. Bartorelli, M. Pepi, G. Pontone (Milan and Bari, IT)

Evaluation of change in commissure height during aortic repair surgery by combination of multi-planar reconstruction and volume rendering imaging with cardiac computed tomography	560
<i>K. Obase, T. Miura, T. Miyanaga, M. Takura, H. Taguchi, S. Kojima, T. Shimada, Y. Tasakai, S. Yokose, S. Nakaji, I. Matsumaru, K. Eishi (Nagasaki, JP)</i>	
Computationally simulated fractional flow reserve from coronary computed tomography angiography based on fractional myocardial mass	561
<i>H.Y. Kim, J.H. Choi, Y.-G. Bae, H. Han, S.-T. Hwang, S.M. Kim, Y.J. Moon (Gwangju and Seoul, KR)</i>	
Correlations between plaque eccentricity, severity of luminal narrowing and characteristics of plaque vulnerability - A CT based substudy of the PlaquelImage project	562
<i>M. Ratiu, A. Benedek, N. Rat, E. Marton, D. Opincariu, T. Benedek, I. Benedek (Tirgu-Mures, RO)</i>	
Development and clinical evaluation of a new open source TAVI sizing software	563
<i>A. Holzamer, J. Spaltenstein, M. Zerdzitzki, L. Kmiec, C. Schmid, K. Debl, M. Fischer, W.K. Kim, M. Hilker (Regensburg and Bad Nauheim, DE)</i>	

15:40 - 16:25 HOW-TO SESSION ROME

How to make a good and effective oral presentation

Chairperson(s): O. Ozden Tok (Istanbul, TR)

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

15:40 > Presenter:	564
<i>D. Vinereanu (Bucharest, RO)</i>	

15:40 - 16:25 SPECIAL SESSION TURIN

Imaging Highlight from the ESC registries



Chairperson(s): C. Shekhar (Edina, US); Z. Vered (Zerifin, IL)

15:40 > EUROENDO: value of imaging.	565
<i>G. Habib (Marseille, FR)</i>	
16:02 > Imaging in Euro Heart Survey II.	566
<i>B. lung (Paris, FR)</i>	

16:30 - 18:00 MAIN SESSION MILAN

Prosthetic valves under the spotlight

Chairperson(s): J. A. Lowenstein (Buenos Aires, AR); B. Chambers (London, GB)

16:30 > Bioprosthetic valve complications.	567
<i>G. Kahveci (Istanbul, TR)</i>	
16:52 > Mechanical valve complications.	568
<i>A. Bernard (Tours, FR)</i>	
17:15 > Approach to paravalvular leaks.	569
<i>V. Delgado (Leiden, NL)</i>	
17:37 > When do I need another imaging modality?	570
<i>C. Izgi (London, GB)</i>	

16:30 - 18:00 SYMPOSIUM ROME

Assessment of myocardial viability in clinical practice

Joint session with the American Society of Echocardiography (ASE)
Chairperson(s): J. R. Lindner (Portland, US); B. A. Popescu (Bucharest, RO)

- 16:30 › Echocardiography. 571
P. Lipiec (Lodz, PL)
- 16:52 › Cardiovascular magnetic resonance and Computed Tomography. 572
M. Desai (Cleveland, US)
- 17:15 › Nuclear imaging. 573
G. Barone-Rochette (Grenoble 9, FR)
- 17:37 › Significance of viability assessment in various clinical scenarios. 574
F. Asch (Washington, US)

16:30 - 18:00 CLINICAL IMAGING PALERMO

Cardiac imaging pericardial disease
Chairperson(s): P. Nihoyannopoulos (London, GB); M. Pepi (Milan, IT)

- 16:30 › Pericardial tamponade: the importance of early diagnosis. 575
M. J. Andrade (Lisbon, PT)
- 16:52 › Restrictive cardiomyopathies versus constrictive pericarditis. 576
B. Cosyns (Brussels, BE)
- 17:15 › Pericardial diseases in oncologic patients: multifactorial aetiology. 577
M. Scherrer-Crosbie (Philadelphia, US)
- 17:37 › Multi-modality imaging approach to pericardial disease. 578
B. L. M. Gerber (Woluwe-St. Lambert, BE)

16:30 - 18:00 TEACHING COURSE TURIN

Valvular heart disease 2
Chairperson(s): A. M. Iliesiu (Bucharest, RO); J. Separovic Hanzevacki (Zagreb, HR)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- 16:30 › Standard echo examination of prosthetic valves. 579
T. Le Tourneau (Nantes, FR)
- 16:52 › Prosthetic valve pathologies. 580
S. V. Pislaru (Rochester, US)
- 17:15 › Tricuspid valve regurgitation. 581
D. Muraru (Padua, IT)
- 17:37 › Native valve and device-related endocarditis › 582
A. Felix (Rio De Janeiro, BR)

Afternoon Sessions

16:30 - 18:00 DEBATE SESSION NAPLES

Debate on imaging in interventions
Chairperson(s): R. S. Von Bardeleben (Mainz, DE); E. Brochet (Paris, FR)

16:30 ›	Positioning of the topic: the left atrial appendage closure Computed Tomography is enough <i>E. Brochet (Paris, FR)</i>	583
16:40 ›	The left atrial appendage closure Computed Tomography is enough - PRO. <i>X. Iriart (Pessac, FR)</i>	584
16:50 ›	The left atrial appendage closure Computed Tomography is enough - CONTRA. <i>M. J. Swaans (Hedel, NL)</i>	585
17:00 ›	Rebuttal - PRO. <i>X. Iriart (Pessac, FR)</i>	586
17:03 ›	Rebuttal - CONTRA. <i>M. J. Swaans (Hedel, NL)</i>	587
17:06 ›	Conclusion and take home message. <i>E. Brochet (Paris, FR)</i>	588
17:15 ›	Positioning of the topic: patent foramen ovale closure: transthoracic monitoring is enough. <i>R. S. Von Bardeleben (Mainz, DE)</i>	589
17:25 ›	Patent foramen ovale closure: transthoracic monitoring is enough - PRO. <i>A. Cohen (Paris, FR)</i>	590
17:35 ›	Patent foramen ovale closure: transthoracic monitoring is enough - CONTRA. <i>J.A. Beitnes (Oslo, NO)</i>	591
17:45 ›	Rebuttal - PRO. <i>A. Cohen (Paris, FR)</i>	592
17:48 ›	Rebuttal - CONTRA. <i>J.A. Beitnes (Oslo, NO)</i>	593
17:51 ›	Conclusion and take home message. <i>R. S. Von Bardeleben (Mainz, DE)</i>	594

16:30 - 18:00 SYMPOSIUM GENOA

Is there (still) a place for echo on cardiac resynchronization therapy (CRT)?
Chairperson(s): L. Herbots (Hasselt, BE); E. Agricola (Milano, IT)

16:30 ›	Imaging assessment of ventricular mechanics. <i>J. U. Voigt (Leuven, BE)</i>	595
16:52 ›	How to select the perfect candidate? <i>I. Stankovic (Belgrade, RS)</i>	596
17:15 ›	Too many parameters? Which one to use? <i>E. Galli (Rennes, FR)</i>	597
17:37 ›	What is the future of echo on CRT? <i>J. Gorcsan (St. Louis, US)</i>	598

16:30 - 18:00

SYMPOSIUM

VENICE

Multimodality imaging in valvular heart disease

Joint session with the Italian Society of Cardiology (SIC), the National Association of Hospital Cardiologists (ANMCO), the Italian Society of Echocardiography and Cardiovascular Imaging (SIECvi)

Chairperson(s): M. Galderisi (Naples, IT); F. A. Benedetto (Reggio Calabria, IT)

- | | | |
|---------|---|-----|
| 16:30 > | Role of echo in Transcatheter Aortic Heart Valve (TAVI) and mitralclip.
<i>P. G. Pino (Roma, IT)</i> | 599 |
| 16:48 > | Role of Computed Tomography scan In TAVI and mitralclip.
<i>N. Carrabba (Florence, IT)</i> | 600 |
| 17:06 > | Role of cardiovascular magnetic resonance imaging in Transcatheter Aortic Heart Valve (TAVI) and mitralclip.
<i>G. Pontone (Milan, IT)</i> | 601 |
| 17:24 > | Role of Computed Tomography perfusion before TAVI and mitralclip.
<i>D. Neglia (Pisa, IT)</i> | 602 |
| 17:42 > | Multimodality imaging for valvular heart disease: perspective and clinical practice.
<i>P. Colonna (Bari, IT)</i> | 603 |

16:30 - 18:00

RAPID FIRE ABSTRACTS

AGORA

The added value of functional and anatomical imaging in difficult patients

Fast paced and interactive session with key messages of 10 abstracts.
Rapid Fire Abstracts session = Oral Communication

Chairperson(s): R.R. Buechel (Zurich, CH); A. Gimelli (Pisa, IT)

- | | | |
|---------|--|-----|
| 16:30 > | Panel of experts:
<i>M. Dweck (Edinburgh, GB); A. Giannopoulos (Zurich, CH)</i> | 604 |
| 16:30 > | Risk stratification of nonobstructive coronary artery disease for guidance of medical therapy
<i>H.S. Lee, I.C. Hwang, J.B. Park, S.P. Lee, H.K. Kim, Y.J. Kim, G.Y. Cho, D.W. Sohn, Y.E. Yoon (Seoul and Seongnam, KR)</i> | 605 |
| 16:39 > | Distribution of coronary artery calcium by cardiovascular disease risk factor, gender, and age in a population of low risk for coronary artery disease
<i>H. Jeong, I.J. Cho, D. Han, J.H. Lee, J.M. Sung, S.Y. Choi, E.J. Chun, S.H. Park, H.W. Han, J. Sung, H.O. Jung, H.J. Chang (Seoul, Goyang and Seongnam, KR)</i> | 606 |
| 16:48 > | Coronary CT angiography radiomics can identify invasive and radionuclide imaging markers of coronary plaque vulnerability
<i>M. Kolossvary, J. Park, J.I. Bang, J. Zhang, J.M. Lee, J.C. Paeng, B. Merkely, J. Narula, T. Kubo, T. Akasaka, B.K. Koo, P. Maurovich-Horvat (Budapest, HU; Seoul, KR; New York, US; Wakayama, JP)</i> | 607 |
| 16:57 > | Meta-analysis of coronary CT angiography and calcium score to predict cardiac events in asymptomatic diabetic patients
<i>O. F. Clerc, P. Haaf, M.J. Zellweger (Basel, CH)</i> | 608 |
| 17:06 > | Predictors of low prosthesis position in TAVI patients
<i>P. Breitbart, J. Minners, G. Pache, M. Hein, F.J. Neumann, P. Ruile (Bad Krozingen and Freiburg, DE)</i> | 609 |
| 17:15 > | Non-invasively identification of coronary collateral vessel using coronary computed tomography angiography
<i>H.Y. Kim, E.K. Kim, J.H. Choi, C.W. Yu, H.J. Lee, J. Suh, S.M. Park, S.M. Kim (Gwangju, Seoul, Buchon and Chuncheon, KR; Buchon, XK)</i> | 610 |
| 17:24 > | Comparison of fractional myocardial mass, a vessel-specific myocardial mass-at-risk, with coronary angiographic scoring systems for predicting myocardial ischemia
<i>H.Y. Kim, J.H. Doh, H.S. Lim, C.W. Nam, E.S. Shin, B.K. Koo, J.H. Choi, S.M. Kim (Gwangju, Ilsan, Suwon, Daegu, Ulsan and Seoul, KR)</i> | 611 |

Afternoon Sessions

17:33 ›	Echocardiographic-fluoroscopic fusion imaging for mitralclip procedure: impact on procedural guidance and outcomes <i>A. Fisicaro, A. Beneduce, S. Stella, C. Capogrosso, F. Ancona, S. Altizio, E. Toscano, G. Binda, F. Melillo, V. Romano, A. Latib, A. Margonato, A. Colombo, E. Agricola (Milan, IT)</i>	612
17:42 ›	Imaging cardiac innervation in hereditary transthyretin (ATTRm) amyloidosis: a marker for neuropathy or cardiomyopathy? <i>W. Noordzij, D.L. Jonker, A.W.J.M. Glaudemans, H.L.A. Nienhuis, B.P.C. Hazenberg, R.H.J.A. Slart (Groningen, NL)</i>	613
17:51 ›	Myocardial 123I-mIBG scintigraphy as a tool to optimize CRT patient selection <i>D.O. Verschure, H.J. Verberne (Amsterdam, NL)</i>	614

16:30 - 18:00

WORKSHOP

TOE ROOM

Focus on Atrial Septal Defect closure (ASD)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

16:30 ›	Presenters: <i>H. M. Mahmoud-Elsayed (Aswan, EG); M.H. Miglioranza (Porto Alegre, BR)</i>	615
---------	--	-----

Thursday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee

08:30 - 18:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Clinical Case Poster session 2

All posters are on display from 08:30 to 18:00.

From 12:45 to 13:45 - Meet the presenters by their poster

Lunch time Heart Imagers of Tomorrow Clinical Case Poster hosts - 12:45 - 13:45.

*F. Flachskampf (Uppsala, SE); V. Delgado (Leiden, NL); D. Neglia (Pisa, IT);
T. Podlesnikar (Maribor, SI); T. Biering-Sorensen (Copenhagen, DK)*

Invisible cause of obviously visible lesion

R. Parikh, M. Dhavalagimath, A. Patel (NASHIK, IN)

Sliding hiatal hernia mimicking a left atrial mass

U. Kocabas, F. Ozkalayci, A. Altun (Istanbul, TR)

Case of mediastinal b-cell lymphoma with invasion in myocard

S.J. Bartosh-Zelenaya, A.A. Andreeva, T.V. Naiden (St. Petersburg, RU)

A rare case of left ventricular non-compaction with posterior cleft mitral valve

D. Karakozak, N. Turhan Caglar, U. Karabulut, H. Cebe Ay, F. Akturk, F. Katkat (Istanbul, TR)

Exercise induced diastolic dysfunction and pulmonary hypertension by stenosis of diagonal branch

*M. Toki, N. Kagiya, A. Hayashida, T. Kawamoto, T. Sakaguchi, S. Aritaka,
K. Yoshida (Okayama, JP; St. Louis, US)*

Endocardial fibroelastosis in an adult with barlow's disease: coincidence or consequence?

M. Yeni, G. K. Gokhan Kahveci, C. I. Cemil Izgi (Isparta and Istanbul, TR; London, GB)

Unravelling the source of acute chest pain following the cardiac catheterization

L. Arcari, H. Zainal, H. Zhou, C. Arendt, A.M. Zehier, E. Nagel, V.O. Puntmann (Frankfurt am Main, DE)

Atypical tako-tsubo syndrome: a case series

*G. Vinco, F. Baessato, G. Benfari, C. Zivelonghi, C. Sandrini, A. Rossi, G. Destro, F.L. Ribichini,
G. Puppini (Verona, IT)*

A rare case of recurrent myocarditis complicated with renal infarction

D. H. Neves Sebaiti, A. Alexandra Briosa, I.C. Ines Cruz (Almada, PT)

A case of rare association: unroofed coronary sinus and bicuspid aortic valve

B.S. Botezatu, G. Olaru, R. Enache, A. Stoica, I.M. Coman, C. Ginghina, B.A. Popescu (Bucharest, RO)

Churg Struss cardiac involvement: It is not just dyspnea

A. Ali, S. Mamdouh, S. Ibrahim, A. Gomaa (Alexandria, EG)

Glenn bypass steal by the azygos vein treated by transcatheter occlusion: a case report

*M.A.R.W.A. Abdallah, H.O.U.D.A. Ghardalou, K.A.R.I.M. Ben Brahim, H.O.U.S.E.M. Thabet, O.U.E.I.S. Laabidi,
A.F.E.F. Lagren, M.E.H.D.I. Slim, R.Y.M. Gribaa, E.L.Y.E.S. Neffati, E.S.S.I.A. Boughzela (Sousse, TN)*

Atrial septum-mitral valve band: a rare embryologic remnant causes mitral valve dysfunction

S. Nishino, N. Watanabe, D. Kuwahara, K. Ashikaga, N. Kuriyama, Y. Shibata (Miyazaki, JP)

Cat-eye syndrome and fish-mouth valves: a zoo of malformations?

*B.K. Lakatos, H. Vago, A. Toth, C. Czimbalmos, R. Mikle, A. Barcsi, O. Cseprekal, A. Kovacs,
B. Merkely (Budapest, HU)*

Unexplained right heart dilatation in a patient with history of deep vein thrombosis. ECG Crochetage's sign leads to the diagnosis of sinus venosus ASD- Inferior subtype

W.J. Tiau, G. Shathiskumar, S.H.A.W.A.L. Mohd, H.A.M.A.T. Che Hassan, O.T.E.H. Maskon (Kuala Lumpur, MY)

08:30 - 18:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Poster session 2

All posters are on display from 08:30 to 18:00.

From 12:45 to 13:45 - Meet the presenters by their poster

Lunch time Heart Imagers of Tomorrow Poster hosts - 12:45 - 13:45.

*E. Donal (Rennes, FR); A. Stefanidis (Athens, GR); L.E. Sade (Ankara, TR); S. Anwer (Zurich, CH);
B.W. Michalski (Ksawerow, PL); H. Soliman (London, GB)*

P632

Comparison of performances among five prediction formulae using echocardiography in estimation of mean pulmonary arterial pressure

P633

B. Junsirimongkol, S. Cheewatanakornkul, S. Jamulitrat (Hatyai, Songkhla, TH)

Associations of right atrial and ventricular strain with invasively assessed hemodynamic parameters in patients with pulmonary hypertension

P634

L. Theres, A. Huebscher, K. Stangl, H. Dreger, F. Knebel, A. M. Brand, B. Hewing (Berlin, DE)

Speckle tracking echocardiographic assessment of patterns and distribution of ventricular strain impairment in young adults with human immunodeficiency virus infection

P635

L. Capotosto, G. D'ettorre, C. Ajassa, N. Cavallari, M. Ciardi, V. Vullo, C. Gaudio, A. Vitarelli (Rome, IT)

Phasic right atrial strain assessed by 2D speckle tracking echocardiography: reference values, feasibility, determinants and possible clinical implications

P636

A. M. Brand, M. Bathe, A. Huebscher, G. Baldenhofer, R. Haettasch, U. Seeland, S. Oertelt-Prigione, V. Regitz-Zagrosek, K. Stangl, H. Dreger, V. Stangl, F. Knebel (Berlin, DE)

The role of galectin-3 in left atrial remodelling in middle-aged patients with atrial fibrillation

P637

Borizanov-Petkova, E. Kinova, V. Koleva, A. Goudev (Sofia, BG)

Global longitudinal strain as an early indicator of cardiac toxicity secondary to anthracycline treatment in pediatric patients with acute lymphatic leukaemia

P638

Castaldi, G. Bordin, E. Pellizzer, G. Biddeci, G. Basso, C. Putti, O. Milanesi (Padua, IT)

Left atrial fractional shortening as a new feasible and usable tool for the evaluation of atrial function

P639

G.E. Mandoli, V. Capone, S. Minardi, S. Lunghetti, F. D'ascenzi, S. Mondillo, M. Cameli (Siena, IT)

Usefulness of three-dimensional echocardiography for the assessment of right ventricular volume and function in children; comparison with cardiac magnetic resonance

P640

H. Kaminska, L. Malek, M. Barczuk-Falecka, M. Brzewski, B. Werner (Warsaw, PL)

Clinical relevance of 3D echocardiography parameters for the study of right ventricle function: ejection fraction and Ees/Ea ratio

P641

M. Barletta, F. Bandera, A. Giammarresi, V. Labate, M. Losito, M.M. Caracciolo, M. Rovida, M. Guazzi (San Donato Milanese, IT)

Comparison of automated 3D and standard 2D echocardiography in the assessment of the left atrium in patients with and without heart failure with preserved or reduced ejection fraction

P642

A. M. Brand, D. Hauptvogel, S. Kruck, G. Baldenhofer, C. Heupel, K. Stangl, H. Dreger, F. Knebel (Berlin, DE)

Three-dimensional speckle-tracking echocardiography may detect acute coronary occlusions in patients with Non ST-elevation acute coronary syndrome

P643

T. M. Stokke, K.H. Haugaa, K. Russell, T. Edvardsen, S.I. Sarvari (Oslo, NO)

The impact of intentional distortion of image quality on left ventricular deformation indices by three-dimensional speckle-tracking echocardiography

P644

L. Al Saikhan, C. Park, A. Hughes (London, GB)

Reliability of left ventricular dyssynchrony indices by three-dimensional speckle-tracking echocardiography: the impact of intentional impairment of image quality

P645

L. Al Saikhan, C. Park, A. Hughes (London, GB)

Quantitative assessment of tricuspid regurgitation using right and left ventricular stroke volumes obtained from equilibrium radionuclide ventriculography	P646
<i>D. Eyharts, Y. Lavie-Badie, S. Cazalbou, S. Brun, P. Fournier, E. Cariou, F. Campelo-Parada, M. Galinier, I. Berry, D. Carrie, O. Lairez (Toulouse, FR)</i>	
Intimal disruption in type B aortic intramural hematoma. Does size matter? A systematic review and meta-analysis	P647
<i>P. Vilardell, S. Moral, E. Ballesteros, J.M. Frigola, M. Morales, X. Albert, R. Brugada, A. Evangelista (Girona and Barcelona, ES)</i>	
Cardiac device-related infective endocarditis 99mTc-HMPAO-SPECT/CT assessment in patients with left ventricular systolic dysfunction	P648
<i>K. Holcman, M. Kostkiewicz, P. Rubis, W. Szot, B. Malecka, A. Zabek, A. Lesniak-Sobelga, M. Hlawaty, S. Wisniowska-Smialek, K. Boczar, A. Stepień, P. Podolec (Kraków and Krakow, PL)</i>	
Clinical and echocardiographic profile of patients with cardiac device-related infective endocarditis detected with radiolabelled leucocyte scintigraphy	P649
<i>K. Holcman, M. Kostkiewicz, P. Rubis, B. Malecka, W. Szot, A. Zabek, M. Hlawaty, A. Lesniak-Sobelga, S. Wisniowska-Smialek, K. Boczar, A. Stepień, P. Podolec (Kraków and Krakow, PL)</i>	
Hypersynchrony in sarcomeric hypertrophic cardiomyopathy: description and mechanism approach with a multimodality electro-mechanical non-invasive cartography	P650
<i>M. Michaud, J. Duchateau, A. Reynaud, H. Cochet, P. Ritter, S. Lafitte, P. Reant (Bordeaux-Pessac, FR)</i>	
Comparison between echocardiography and three dimensional rotational angiography: the implication for successful percutaneous left atrial appendage closure	P651
<i>A. Katbeh, E. Silva, T. De Potter, E. Stefanidis, G. Van Camp, E. Barbato, M. Penicka (Aalst, BE)</i>	

08:30 - 12:30

POSTER SESSION

POSTER AREA

Clinical case poster session 2

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Dimensions, Volumes and Mass

Multiple masses attached to left ventricle wall, are these vegetations?

P652

R.G. Rahmat Ghaffar Albegali (Peshawar, PK)

Echocardiography: Valve Disease

Facilitated data relay in a European cohort of 2,171 patients with severe aortic stenosis

P653

R.P. Steeds, M. Lutz, J. Thambyrajah, A. Serra, E. Schulz, J. Maly, M. Aiello, T. Rudolph, G. Lloyd, A.S. Bortone, K.E. Hauptmann, M. Thoenes, P. Bramlage, N. Frey, D. Messika-Zeitoun (Birmingham, Middlesbrough and London, GB; Kiel, Mainz, Cologne, Trier and Mahlow, DE; Barcelona, ES; Prague, CZ; Pavia and Bari, IT; Nyon, CH; Ottawa, CA)

Lutembacher syndrome - an unexpected cause of chest pain and dyspnoea

P654

W. Camilleri, M.R. Burg, A. Borg (Msida, MT)

Rapid bioprosthetic valve degeneration

P655

Rodrigo Carbonero, A. Crespo, T. Munoz, P. Perez, J.I. Aramendi, J.L. Fernandez (Baracaldo, ES)

Right heart failure and pacemaker. 3D echocardiography has the answer

P656

Ortega, A. Garcia Martin, C. Santoro, J.J. Jimenez Nacher, A. Marco Del Castillo, A. Lorente Ros, A. Gonzalez, R. Hinojar, E. Casas Rojo, A. Pardo, M. Abellas, J. Monteagudo, J.L. Zamorano, C. Fernandez-Golfín (Madrid, ES)

The phantom gradient: a hidden symptomatic mitral stenosis late after mitral valve repair surgery.

P657

Cannata, M. Pellegrino, F. Roccasalva, F. Fazzari, V. Lavanco, M. Curzi, R.M. Bragato (Rozzano, IT)

Severe tricuspid stenosis as the initial manifestation of idiopathic hypereosinophilic syndrome

P658

F. Larti, S. Peyman, R. Sattarzade Badkoobeh, A. Tavoosi (Tehran, IR)

Severe aortic regurgitation treated by cardiac surgery in a patient with kaemorrhagic hereditary teleangectasia and cerebral artero-venous malformation

P659

L. Manfredonia, G. Locorotondo, E. Gaetani, C.L. Sturiale, C. Di Stasi, R. Pola, C. Colizzi, A. Pasquini, A. Mazza, A. Gasbarrini, G.A. Lanza, F. Crea, M. Massetti (Rome, IT)

Malignant mitral valve prolapse: does it exist?

P660

M. Parato, M.C. Di Saverio, S. Pelliccioni (San Benedetto del Tronto, IT)

Infective endocarditis complicated with mitral valve abscess

P661

E. A. Khalifa, A. Al-Khulaifi, S. Helmy, A. Sadawi (Doha, QA)

Hanging by a thread: an uncommon post-cirurgical complication

P662

J. Ferreira, R. Ramalho, S. Costa, F. Franco, F. Freitas, C. Ferreira, J. Milner, P. Alves, V. Marinho, C. Domingues, S. Monteiro, L. Goncalves (Coimbra, PT)

The mysterious case of the chubby mitral valve. Appearances are deceptive.

P663

M. Abellas Sequeiros, A. Garcia-Martin, A. Gonzalez, A. Pardo, A. Lorente, J.M. Vieitez, J.J. Jimenez Nacher, J.L. Moya Mur, J.L. Zamorano, C. Fernandez-Golfín (Madrid, ES)

'Pseudo-prolapse' in mitral regurgitation post myocarditis

P664

A. S. Y. Lee, M.R. Amanullah, A. Law, H.C. Tang, S.H. Ewe, L.Y. Teo (Singapore, SG)

Unusual case of anterolateral papillary muscle rupture

P665

I.A. Gueli, D. Morrone, A. Pizzuto, A. Canu, L. Villanova, G. Terlizze, R. Pedrinelli, E. Orsini (Pisa, IT)

A complicated mitral prosthesis endocarditis: an inevitable outcome?

P666

S. Alegria, A. Marques, I. Cruz, A.R. Pereira, D. Sebaiti, A. Biosa, C. Gomes, N. Junqueira, F. Ferreira, M.J. Loureiro, M. Mendes, O. Simoes, A. Nobre, H. Pereira (Almada and Lisboa, PT)

Flail mitral valve with severe regurgitation complicated by secondary pulmonary hypertension in a young athlete <i>A. Siama, A. Tsoukas, A.J. Manolis (Athens, GR)</i>	P667
Vegetation in transit <i>F. Larti, N. Samiee, F. Kargar, Z. Khaje Ali (Tehran, IR)</i>	P668
An unusual case of left ventricular apical aneurysm in severe bicuspid aortic valve stenosis <i>W. Ruan, W.T. Foo, S.H. Ewe, Z.P. Ding, H.C. Tang (Singapore, SG)</i>	P669
Unexpected etiology <i>R. Laymouna, R. Farid, A. Gad, N. Saad, A. Talaat, A. Gohar, A. Elkasabany, A. Almaghraby, A. Khalifa, A. Ashour, M. Hosny, K. Abo-Eldahab, E. Ahmed, M. Mahmoud, E. El-Sharkawy (Alexandria, EG)</i>	P670
Incidental finding of quadricuspid mitral valve with mild regurgitation <i>R.H. Davies, B. Dicken, A. Ionescu (Swansea, GB)</i>	P671
A case with severe aortic regurgitation caused by short-term deterioration of aortic cusps reconstructed with autologous pericardium <i>N. Hoshino, A. Yamada, Y. Kawada, M. Hoshino, K. Takada, E. Sakaguchi, Y. Takagi, Y. Ozaki (Toyoake, JP)</i>	P672
An unexpected atrial septal defect in an adult patient <i>J. P. Dias Ferreira Reis, T.B. Mano, A. Galrinho, L. Branco, A. Agapito, A. Viveiros Monteiro, L. Sousa, J.A. Oliveira, A. Laranjeira, F. Pinto, J. Fragata, R. Cruz Ferreira (Lisbon, PT)</i>	P673
Epidemiological profile of valvular heart diseases (VHD) in Algeria <i>S. Latreche Sekoum, N. Methia, M. Djouhri, Z.F. Amorouayeche, S. Oabdesselam, S. Benkhedda (ALGER, DZ)</i>	P674
Searching for signs of mitral regurgitation - a case of a flail bioprosthetic mitral valve leaflet <i>V.K. Le, A. Rohani (Thunder Bay, CA)</i>	P675
Dehiscence of a mechanical aortic valve secondary to culture negative endocarditis <i>H. Klimis, J. Mo, R. Chard, M. Skinner, L. Thomas (Sydney, AU)</i>	P676
Rheumatic tricuspid valve disease; one more piece to the puzzle. <i>Zahran, M.S. Abd El Hamid, O. El Gebaly, M.A. Abd El Hay, S.A. Ashour (Alexandria, EG)</i>	P677
Granulicatella adiacens: an unusual cause of infective endocarditis <i>Duraes Campos, C. Oliveira, A.R. Marques, L. Sousa, I. Apolinario, C. Vieira, A. Salgado, P. Pinho, I. Brandao (Braga and Porto, PT)</i>	P678
LVOT obstruction after mitral valve replacement: what is the mechanism? <i>C.Y. Wong (Hong Kong, HK)</i>	P679
Asymptomatic congenital aortic stenosis with pregnancy - don't call it a game until it is over <i>A. C. Patru, S. Albu, C. Andrei, R. Bica, C. Ginghina, B.A. Popescu, R. Jurcut (Bucharest, RO)</i>	P680
Infective aortic valve endocarditis in a patient with mixed connective tissue disease. <i>F. Batista, H. Ferreira, A. Freitas, C. Henriques (Amadora, PT)</i>	P681
Stress Echocardiography	
Stress acho with exercise-induced aVR lead ST-segment elevation as predictor of severe left main stenosis <i>M. T. Petrovic, V. Giga, A. Djordjevic-Dikic, N. Boskovic, F. Markovic, S. Aleksandric, M. Tesic, D. Trifunovic-Zamaklar, M. Dobric, M. Dragovic-Tomic, I. Nedeljkovic, M. C. Ostojic, B. Beleslin, J. Stepanovic (Belgrade, RS)</i>	P682
Clinical case of subocclusion of the left anterior descending artery of young female athlete <i>A. Khilchuk, N. E. Pavlova, O. Mamaeva, O. Guseva, M. Agarkov, D. Vorobyovsky, S. Vlasenko, S. Lebedeva, A. Sarana, S. Scherbak (Sant-Peterburg, RU)</i>	P683
Usefulness of exercise testing in provoking left ventricular outflow tract obstruction in an asymptomatic patient with no evidence for hypertrophic cardiomyopathy <i>A. Kaplon Cieslicka, M. Marchel, P. Scislo, J. Kochanowski, G. Opolski (Warsaw, PL)</i>	P684

Aortic stenosis and angina, appearances can be deceptive. <i>C. Cotrim, J. Guardado (Riachos, PT)</i>	P685
Can mild mitral regurgitation be treated with mitral surgery with significant clinical benefit, the role of exercise stress echocardiography. <i>C. Cotrim, L. Bakero, M.P. Magalhaes (Lisbon, PT)</i>	P686
Tricuspid prosthesis malfunction unmasked by exercise stress echocardiography. <i>C. Cotrim, L. Bakero, M.P. Magalhaes (Lisbon, PT)</i>	P687
Postexercise left ventricular outflow tract obstruction as a cause of syncope in patient with hypertrophic cardiomyopathy <i>K. Smarz, B. Zaborska, E. Pilichowska-Paszkiel, M. Sikora-Frac, A. Budaj (Warsaw, PL)</i>	P688
Cross-Modality and Multi-Modality Imaging Topics	
Spontaneous coronary artery dissection: suspicion from echocardiography <i>E. Kaya, S. Miyazaki, T. Fukase, K. Hirose, H. Nishiyama, I. Okai, H. Iwata, H. Daida (Tokyo, JP)</i>	P689
Abdominal pain: an intriguing heart symptom <i>D. Seabra, L. Marques, A. Neto, R. Pontes Dos Santos, J. Azevedo, P. Pinto (Penafiel, PT)</i>	P690
Giant pseudoaneurysm of the left ventricle post myocardial infarction: diagnostic dilemma <i>R. Sirbu Prisecaru, C. Zagoni, S. Batar, C. Leatu, O. Purcar, E. Ciobanu, A. Costache, V. Costache (Sibiu, RO)</i>	P691

08:30 - 12:30

POSTER SESSION

POSTER AREA

Poster session 2

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Dimensions, Volumes and Mass

Do we properly assess the left ventricular outflow tract? comparative analysis between two-dimensional measurement methods. P693

S. Colunga Blanco, I. Silva Conde, R. Padron Encalada, D. Garcia Iglesias, L. Junquera Vega, F. Lopez Iglesias, J. Rozado Castano, T. Gonzalez Sanchez, J. Calvo Blanco, H. Cigarran Sexto, D. Calvo Cuervo, J.M. De La Hera Galarza, C. Corros Vicente (Gijon and Oviedo, ES)

Prevalence and risk factors for ventricular remodeling and pulmonary arterial hypertension in systemic erythematosus lupus P694

R. Rascon Sabido, M.H.C. Martinez Hernandez, A.S.M. Santiago Martinez, I.S.G. Soto Gonzalez, D.I.Q. Ibarra Quevedo (Veracruz and Mexico City, MX)

Prediction of echocardiography parameters in patients of different ages P695

A.A. Sokolov, M. V. Soldatenko, A.V. Smorgon (Toms, RU)

Prognostic impact of left ventricular mass in patients with an acute coronary syndrome P696

F. M. Fonseca Goncalves, J.P. Guimaraes, M. Moz, F. Cordeiro, P.S. Mateus, J.I. Moreira (Vila Real, PT)

Left atrial structural remodeling and thromboembolic risk scores in patients with atrial fibrillation P697

S. Radu, C. Bocinca, M.D. Tanase, A. Ouatu, M. Floria (Iasi, RO)

Hemodynamic adaptation to pregnancy with different maternal morbidity and mortality risk according to WHO classification, assessed by echocardiography P698

S. Wisniewska-Smialek, A.G.A.T.A. Lesniak-Sobelga, W. Gorczewski, E. Dziewiecka, K. Holcman, P. Rubis, M. Hlawaty, M. Kostkiewicz, P. Podolec (Krakow, PL)

Early echocardiographic predictors of unfavorable yearly prognosis in patients with acute myocardial infarction P699

R. Alieva, M.M. Pirnazarov, A.G. Nikishin, S.Y.A. Abdullaeva, N.Z. Srojidinova (Tashkent, UZ)

Predictors of hypertrophy progression in hypertrophic cardiomyopathy P700

C. Jimenez-Mendez, A. Cecconi, M.T. Nogales-Romo, G. Diego, A. Rojas Gonzalez, A. Benedicto, L. Dominguez, L. Garcia-Moreno, E. Gonzalez-Bartol, F. De La Cuerda, S. Hernandez, M.J. Oliveira, P. Caballero, L.J. Jimenez-Borreguero, F. Alfonso (Madrid, ES)

Evaluation of left atrium volume index after primary percutaneous coronary intervention in patients with ST elevation acute myocardial infarction P701

H.M. Kim, P.S. Song, C.W. Yu (Incheon and Seoul, KR)

Echocardiography: Systolic and Diastolic Function

Echocardiographic evaluation of the diastolic function of the right and the left ventricles in pulmonary hypertension P702

B. Narziev, A.A. Yakubov, R.R. Hamrayev, O.S. Salaev (Tashkent, UZ)

Two year echocardiographic follow-up in systemic sclerosis patients on standard therapy P703

S.L. Magda, A.M. Gheorghiu, T. Constantinescu, C. Mihai, M. Cinteza, D. Vinereanu (Bucharest, RO)

Impaired ventricular torsion as a predictor of systolic dysfunction in cardiac amyloidosis. P704

J. Bertolin Boronat, V. Mora, I. Roldan, R. Arbucci, E. Romero, M.M. Perez-Gil, R. Serrats, A. Saad, R. Callizo, J. Lowenstein (Valencia, ES; Buenos Aires, AR)

Assessment of left ventricular function in breast cancer patients who were treated with adjuvant trastuzumab: five years follow up P705

I. Krstic, M. Deljanin-Ilic, S. Vrbic, D. Marinkovic (Nis, RS)

Effects of surgical septal myectomy on left ventricular diastolic LV function in patients with hypertrophic obstructive cardiomyopathy.	P706
<i>A. Furugen, H. Doi (Sapporo, JP)</i>	
Epicardial adipose tissue adversely affects cardiac remodelling in severe aortic stenosis	P707
<i>J. Mancio, G. Pessoa-Amorim, D. Azevedo, W. Ferreira, M. Carvalho, L. Vouga, I. Falcao-Pires, A. Leite-Moreira, V. Gama Ribeiro, N. Bettencourt, R. Fontes-Carvalho (Vila Nova de Gaia and Porto, PT)</i>	
Left ventricular and vascular remodeling and diastolic dysfunction in hypertensive patients with obesity	P708
<i>O. Honchar, T. Ashcheulova, O. Kovalyova, N. Kopytsya, N. Tytarenko (Kharkiv, UA)</i>	
Electric storm. Does it impact left ventricular ejection fraction.	P709
<i>Gadula-Gacek, J. Niedziela, M. Tajstra, A. Kurek, M. Gasior (Zabrze, PL)</i>	
Relationship between electric function and left ventricular dyssynchrony in asymptomatic population	P710
<i>Vancheri, M.Y. Henein (Caltanissetta, IT; Umea, SE)</i>	
Vitamin D status has limited association with cardiovascular function in an overweight middle aged population	P711
<i>A. Rickenlund, P. Lundstrom, M.J. Eriksson, A. Krook, J.R. Zierath, K. Caidahl (Stockholm, SE)</i>	
Is the left ventricular lateral wall a determinant of the right ventricular function during left ventricular bundle branch block?	P712
<i>P. Storsten, J. Aalen, C.K. Larsen, E. Boe, J. Duchenne, J.U. Voigt, O.A. Smiseth, H. Skulstad (Oslo, NO; Leuven, BE)</i>	
Echocardiography in elderly general population: should be a screening test?	P713
<i>E. J. Amao Ruiz, J.C. Martin Escudero (Valladolid, ES)</i>	
Echocardiography: Valve Disease	
Anatomical characteristics and response to stress echo in hypertrophic obstructive cardiomyopathy underwent transaortic extended left ventricular myectomy	P714
<i>A. Furugen, H.D. Doi (Sapporo, JP)</i>	
Transcatheter valve-in-valve for degenerated aortic and mitral surgical bioprosthetic valves: feasibility and outcomes	P715
<i>L. Fusini, M. Muratori, G. Tamborini, S. Ghulam Ali, P. Gripari, L. Salvi, F. Fabbicchi, M. Roberto, P. Trabattoni, M. Agrifoglio, A.L. Bartorelli, F. Alamanni, M. Pepi (Milan, IT)</i>	
Radiation induced valve disease and cardiotoxicity induced cardiomyopathy is frequent	P716
<i>J. Bergler-Klein, R. Badr-Eslam, M. Frey, M. Schneider, M. Pavone-Gyongyosi, T. Binder (Vienna, AT)</i>	
Pre- and post-operative echocardiography in end-stage rheumatic heart disease during development of cardiac surgery in sub-Saharan Africa	P717
<i>S. Hauge, H. Dalen, B. Nega, D. Yadeta, S. Guteta, D. Mekonnen, K. Vikenes, N. Bogale, V. Ellensen, A. Solholm, T. Hovstad, M. Farstad, S. Hammersborg, M.E. Estensen, R. Haaverstad (Bergen, Trondheim, Stavanger and Oslo, NO; Addis Ababa, ET)</i>	
Acute changes in RV function in aortic stenosis patients after TAVI	P718
<i>A. Pardo Sanz, C. Santoro, R. Hinojar, L. Salido, A. Gonzalez, A. Garcia, M. Abellas, J.J. Jimenez, V. Barletta, J.M. Monteagudo, A. Marco, S. Ruiz, R. Hernandez, J.L. Zamorano, C. Fernandez Golfín (Madrid, ES)</i>	
An investigation of global longitudinal strain in primary mitral regurgitation: a retrospective cohort of patients with mitral regurgitation.	P719
<i>R. Lavery, C. Vaughan, C. O'herlihy, A. Amaro, M. Hinds, D.M. Kerins (Cork, IE)</i>	
Severe aortic stenosis in people over 85: a paradoxical probleme.	P720
<i>J. Ramos Jimenez, M. Plaza Martín, S. Hernandez, J.M. Vieitez Florez, M. Abellas Sequeiros, J.L. Zamorano Gomez (Madrid, ES)</i>	
Baseline planimetry derived aortic valve area as the strongest predictor of aortic stenosis progression.	P721
<i>P. Hamala, J.D.K. Kasprzak, P.L. Lipiec, A. Mielczarek, K. Wierzbowska-Drabik (Lodz, PL)</i>	

- Ejection fraction and left ventricular remodeling after MitraClip implantation: insights from echo study. P722
N. Carrabba, C. Zocchi, N. Fallani, G. Taborchi, M. Berteotti, A. Migliorini, R. Valenti, P.L. Stefano, N. Marchionni, D. Antoniucci (Florence, IT)
- Inappropriate left ventricular hypertrophy in severe aortic stenosis P723
S. Gamaza Chulian, B. Serrano Munoz, E. Diaz Retamino, D. Ruiz Fernandez, A. Giraldez Valpuesta, M. Alba Sanchez, D. Canadas Pruano, S. Gonzalez Estriegana, E. Otero Chulian (Jerez, ES)
- Bicuspid aortic valve: which valvular lesions and how to predict the need for surgery? P724
A. M. Nunes Ferreira, J. Rigueira, I. Aguiar-Ricardo, J.R. Agostinho, I. Santos-Goncalves, R. Santos, R. Placido, C. David, F. J. Pinto, A. G. Almeida (Lisbon, PT)
- Surgical versus transcatheter aortic valve replacement in low-gradient aortic stenosis in our reference population P725
C. Asla Ormaza, A. Manzanal Rey, N. Garcia Ibarrondo, M. Codina Prat, P.M. Mendoza Cuartero, G. Ramirez-Escudero Ugalde, I. Bravo Martinez, G. Aurrekoetxea Bajeneta, R. Martinez De Bourio Uriarte, A. Elorriaga Madariaga, A. Arregui Lopez, A. Ullate De La Torre, E. Rey Carreras, L. Ruiz Gomez (Bilbao, ES)
- Valvular heart disease in young athletes P726
D.Y.U. Alekseeva, I.A. Zemskov, V.V. Grigoryev (Saint Petersburg, RU)
- Common and rare findings on echocardiography in patients referred to the military hospital of Tunis for infective endocarditis with positive blood cultures P727
A. Haggui, A. Zribi, H. Mahfoufhi, C. Chourabi, S. Chenik, R. Dahmani, K. Taamallah, W. Fehri, H. Haouala (Tunis, TN)
- Paravalvular leak closure still a challenge and unpredictable results. P728
A. Galrinho, L. Branco, A. Fiarresga, D. Cacela, P. Pinto-Teixeira, A. Timoteo, R. Ferreira (Lisboa, PT)
- Subvalvar obstruction in the elderly leads to false cases of severe aortic stenosis P729
D.S. Lira, D.R. Tiezzi, T.M.S. Terra, C. Machado, G. De Rossi, W. Nadruz Jr, J. R. M. Souza (Campinas, BR)
- Tissue Doppler, Speckle Tracking and Strain Imaging**
- Myocardial damage pattern in women with breast cancer who underwent chemotherapy: strain polar maps analysis P730
C. Zito, R. Manganaro, L. Longobardo, M.C. Cusma-Piccione, A. Bava, C. Casile, G. Ferrazzo, R. Costantino, V. Vaccaro, M.C. Todaro, L. Alibani, M.G. Daffina, D. Di Nunzio, G. Altavilla, S. Carerj (Messina, IT)
- Epicardial arrhythmic electrical activity and right ventricle dysfunction in brugada syndrome. P731
V. Mecarocci, G. Ciconte, G. Vicedomini, V. Borrelli, G. Della Ratta, V. Santinelli, F. Sturla, E. Votta, M. Lombardi, C. Pappone (San Donato Milanese and Milano, IT)
- Effect of image quality on accuracy of 2D strain echocardiography for diagnosing ischemic chest pain: a 2DSPER multicenter substudy P732
A. Shiran, D.S. Blondheim, S. Shimoni, M. Jabaren, D.S. Rosenmann, A. Sagie, D.S. Leibowitz, M. Leitman, M. Feinberg, R. Beerli, S. Adawi, I. Asmer, M. Ganaeem, Z. Friedman, N. Liel-Cohen (Haifa, Hadera, Rehovot, Afula, Jerusalem, Petah Tikva, Zerifin, Tel Hashomer and Beer Sheva, IL)
- Left atrial function is transiently impaired in tako-tsubo cardiomyopathy: a prospective study using left atrial two-dimensional longitudinal strain P733
V. Stracchi, P. Meimoun, U. Djou, T. Botoro, S. Martis, J. Boulanger, F. Elmkies, H. Zemir, J. Clerc (Compiègne, FR)
- The association of impaired left ventricular global strain and insulin resistance in none-diabetic patients with chronic heart failure P734
A. E. Berezin, A.A. Kremzer, T.A. Samura, A.A. Berezin (Zaporozhye, UA)
- Prospective randomised comparison of percutaneous coronary intervention and optimal medical therapy in chronic total occlusion: assessment of cardiac function by 2D speckle tracking echocardiography P735
O. Petrovic, S. Juricic, I. Rakocevic, D. Trifunovic-Zamaklar, I. Jovanovic, M. Tesic, I. Paunovic, M. Petrovic, G. Stankovic, B. Beleslin, M. Dobric, S. Aleksandric, M. Boricic-Kostic, M. Tomic-Dragovic, S. Stojkovic (Belgrade, RS)
- Left atrial enlargement but not its functional impairment is independently associated with the presence of non-permanent atrial fibrillation in patients with high risk of cardioembolic stroke P736
A. Savelev, O.V. Solovev, Y.V. Shubik, P.G. Platonov, M.A. Baturova (St.Petersburg, RU; Lund, SE)

A septal bulge depicts more advanced cardiac impairment in patients with hypertension: the case of atrial remodelling	P737
<i>F. Loncaric, L. Nunno, M. Mimbreno, L. Sanchis, S. Montserrat, F. Weidemann, B. Bijlens, M. Sitges (Barcelona, ES; Wurzburg, DE)</i>	
Left ventricular apical rotation is associated with mitral annular function in healthy subjects - a three-dimensional speckle-tracking echocardiographic study	P738
<i>A. Nemes, Z. Kovacs, A. Kormanyos, P. Domsik, A. Kalapos, C. Lengyel, G.A. Piros, T. Forster (Szeged and Baja, HU)</i>	
Speckle tracking strain echocardiography detects segmental cardiac dysfunction in the longer-term after radiation therapy for breast cancer	P739
<i>S. Trivedi, P. Choudhary, Q. Lo, H. Sritharan, V. Batumalai, G. Delaney, L. Thomas (Sydney, AU)</i>	
Left ventricle global longitudinal strain and myocardial work analysis assessed during exercise stress echocardiography in children with kawasaki disease	P740
<i>V. Bucciarelli, J. Sabatino, C. Prota, D. Sirico, M. Josen, J.S. Paredes, M. Uy, A. Fraisse, G. Di Salvo (London, GB)</i>	
Aortic strain decreases proportionally to increasing ascending aorta diameter	P741
<i>L. Sabia, M. Cesareo, E. Avenatti, D. Leone, F. Tosello, G. Bruno, M. Bollati, I. Maffei, G. Zocaro, L. Airale, F. Veglio, A. Milan (Turin, IT)</i>	
Comparison of systolic and diastolic global left ventricular function recovery after myocardial infarction evaluated by two-dimensional speckle tracking echocardiography	P742
<i>K. Wdowiak-Okrojek, P. Wejner-Mik, J.D. Kasprzak, P. Lipiec (Lodz, PL)</i>	
Left atrial contractile strain, left ventricular strain or ejection fraction to assess cardiotoxicity in breast cancer patients receiving trastuzumab therapy?	P743
<i>E. Stefanidis, A. Katbeh, A. Pipertzi, I. Michelis, E. Silva, A. Milkas, Z. Balogh, K. De Knijf, G. Van Camp, M. Penicka (Aalst, BE)</i>	
Left atrial strain categorization of left ventricular diastolic dysfunction in pediatric cardiomyopathies	P744
<i>J. Sabatino, P. Daubeney, A. Fraisse, C. Prota, V. Bucciarelli, D. Sirico, M. Josen, M.P. Uy, R. Barracano, J. Paredes, G. Di Salvo (London, GB)</i>	
Characteristics of regional improvement in left ventricular mechanical activation delay after cardiac resynchronization therapy	P745
<i>T. Zaremba, N. Risum, B. Tayal, P. Sogaard (Aalborg and Copenhagen, DK)</i>	
Global longitudinal strain and myocardial mechanics improve after septal myectomy associated with mitral valve repair in patients with obstructive hypertrophic cardiomyopathy	P747
<i>D. Poggio, R. Abete, S. Mazzetti, G. Di Giovine, M. Grillo, A. Zyrianov, I. Binaco, G. Vaccari, P. Spirito, P. Ferrazzi (Monza, IT)</i>	
Decreased left atrial strain in children with left ventricular hypertrophy and preserved left ventricular contraction	P748
<i>T. Hayashi, T. Shindo, Y. Misaki, H. Ono (Tokyo, JP)</i>	
Cardiotoxicity in breast cancer: what about left atrial function?	P749
<i>A. T. Timoteo, L. Moura Branco, F. Filipe, A. Galrinho, J. Feliciano, P. Rio, G. Portugal, S. Oliveira, R. Cruz Ferreira (Lisbon, PT)</i>	
Different widths of the region of interest affects global longitudinal strain measured by speckle tracking echocardiography	P750
<i>J. Petrini, S. Sharbatfar, A. Olsson (Stockholm, SE)</i>	
Gender differences in 2D ST strain analysis of RTR	P751
<i>L. Stefani, C.I. Ingleto, S.P. Pedri, G.P. Pedrizzetti (Florence and Trieste, IT)</i>	
Impact of right ventricular geometry and left ventricular hypertrophy on right ventricular mechanics in hypoplastic left heart syndrome	P752
<i>A. Rosner, T. Bharucha, L. Mertens, M.K. Friedberg (Tromso, NO; Toronto, CA)</i>	

Comparison of global and regional myocardial strains in patients with heart failure with a preserved ejection fraction vs hypertension vs age-matched control	P753
<i>H. Y. Kim, K.K.H. Kim, S.C. L.E.E. Lee, R. H.E.O. Heo (Gwangju and Seoul, KR)</i>	
Independent association of waist circumference and left ventricular longitudinal dysfunction in patients with uncomplicated type 2 diabetes mellitus	P754
<i>Luciano, S. Cocozza, L. La Mura, V. Sellitto, O. Casciano, R. Sorrentino, M. Lembo, R. Esposito, B. Trimarco, M. Galderisi (Naples, IT)</i>	
Left ventricular endocardial longitudinal dysfunction persists after acute myocarditis with preserved ejection fraction	P755
<i>Di Bella, S.C. Carerj, R. Donato, F. Gabriella, S.C. Pedri, G. Vizzari, M.P. Campisi, C. Zito, C. De Gregorio (Messina and Florence, IT)</i>	
Utility and reliability of left ventricular myocardial performance index in children and adolescents perinatally infected with HIV	P756
<i>A.W. Mccrary, W. Nyandiko, N.M. Thielman, G.S. Bloomfield, J.A. Kisslo, P.C.A. Barker (Durham, US; Eldoret, KE)</i>	
Subclinical cardiac dysfunction in HIV-infected patients: incremental value of myocardial deformation imaging	P757
<i>S. Sengupta, M. Tokodi, T. Bergmann, G. C. Verzosa, M. Brushundi, P. P. Sengupta (Nagpur, IN; Morgantown, US)</i>	
Stress Echocardiography	
The role of combined stress echocardiography and cardiopulmonary exercise stress in non-severe chronic obstructive pulmonary disease patients	P758
<i>Z.H. Cherneva, M.G. Gospodinova, S.D. Denchev, R.C.H. Cherneva (Sofia, BG)</i>	
Laboratory and functional data in young patients with early stages of pulmonary sarcoidosis	P759
<i>V.I. Novikov, I.A. Evsikova, S.J. Bartosh-Zelenaya, T.V. Naiden, O.P. Mamaeva, O.A. Guseva, S.G. Scherbak (St. Petersburg and Saint-Petersburg, RU)</i>	
Exercise-induced post-ischemic left ventricular delayed relaxation in patients with intermediate coronary stenosis: comparison with myocardial fractional flow reserve	P760
<i>K. Ishii, E. Tada, S. Asada, K. Miyagawa, M. Hayano, T. Nagai, K. Sawada, K. Honde (Osaka, JP)</i>	
Evaluation of the paper of stress echocardiography in the follow-up of patients with stent in the left main coronary artery (LMCA).	P761
<i>G. Ramirez-Escudero Ugalde, M. Codina Prat, N. Garcia Ibarrondo, A. Manzanal Rey, L. Ruiz Gomez, I. Bravo, G. Aurrekoetxea, C. Asla Ormaza, P. Mendoza Cuartero, R. Martinez De Bourio (Bilbao, ES)</i>	
The value of layer-specific global longitudinal strain for coronary artery disease detection during dobutamine stress echocardiography.	P762
<i>K. Wierzbowska-Drabik, B. Nowak, R. Nowakowski, E. Trzos, P. Lipiec, J.D. Kasprzak (Lodz, PL)</i>	
Low dose dobutamine echo can increase number of revascularized patients with ischemic heart failure without angina.	P763
<i>A. R. Krajewski, Ł. Pyka, M. Kurdziel, J. Niedziela, M. Danicic, K. Maciol-Skurk, W. Skowron, Ł. Siedlecki, J. Nowak, M. Gasior (Zabrze, PL)</i>	
Diagnostic and prognostic value of rapid pacing stress echocardiography in coronary artery disease: one center experience	P764
<i>A.R. Pereira, A.R. Almeida, I. Cruz, A. Marques, S. Alegria, A.C. Gomes, A. Briosas, D. Sebaiti, L.R. Lopes, C. Cotrim, I. Joao, H. Pereira (Almada, PT; London, GB)</i>	
Does 'scar' at rest echocardiography predict lack of contractility reserve at dobutamine stress echocardiography?	P765
<i>M.M.Y. Lee, R.T. Campbell, R. Kelly, M.C. Petrie, P. Sonecki (Glasgow, GB)</i>	
Diastolic stress testing as a predictor of high cardiac risk of extra-cardiac surgery	P766
<i>O. Dzhoieva, D. Orlov, M. Alexandrov, P. Bezkorovainyi, G. Rodoman (Moscow, RU)</i>	
The Hellenic stress echo registry	P767
<i>K. Keramida, A. Stefanidis, C. Papadopoulos, A. Theodosios-Georgilas, G. Makavos, N. Kouris (Athens, GR)</i>	
Prognostic significance of dobutamine stress tissue doppler indices in patients with ischemic mitral regurgitation	P768
<i>N. Maroz-Vadalazhskaya (Minsk, BY)</i>	

Slow upsloping ST-segment depression and induced ischemia in exercise stress echocardiography	P769
<i>R. Cano Carrizal, C. Casanova Rodriguez, D. Iglesias Del Valle, V. Martinez Dosantos, R. Cadenas Chamorro, E. De La Cruz Berlanga, A. Martin-Penato Molina, B. Paredes Gonzalez, E. Prieto Moriche, A. Garcia Garcia, I. Plaza Perez (San Sebastian de los Reyes, ES)</i>	
The effects of handgrip stress test on hemodynamic parameters in patients with diastolic heart failure	P770
<i>K. Hristova, N. Tselov, R. Marinov, I. Bogov, S.V. Tsonev (Sofia, BG)</i>	
3D Echocardiography	
Assessment of cardiac function using a novel progressive three-dimensional speckle tracking echocardiographic system	P771
<i>K. Sakata, J. Ito, H. Mitsuda, A. Isaka, T. Minamishima, M. Furuya, K. Matsushita, K. Soejima, T. Satoh, H. Yoshino (Tokyo, JP)</i>	
Evaluation of maternal systolic function by 3D strain in gestational hypertension	P772
<i>A. Ilic, D.J. Ilic, S. Stojic, S. Tadic, D. Grkovic, J. Papovic, A. Milovancev, T. Miljkovic, M. Bjelobrk, B. Radisic, M. Sladojevic, S. Bjelic, A. Ljubotina, A. Stojic-Milosavljevic (Novi Sad and Sremska Kamenica, RS)</i>	
The mitral valve in hypertrophic cardiomyopathy - 3DTEE for complex 3D structures.	P773
<i>E. Venieri, C. Aggeli, H. Sampatakou, A. Anastasakis, E. Sfendouraki, A. Aggelis, G. Sarri, C. Stefanadis, D. Tousoulis (ATHENS and Athens, GR)</i>	
Preload dependency of 3-dimensional echocardiographic right ventricular function using dedicated software	P774
<i>C.S. Park, A. Gwon, H.S. Ahn, H.J. Youn (Seoul, KR)</i>	
Automatic 3D volumetric quantification correlation between transthoracic echocardiogram and cardiac magnetic resonance	P775
<i>E. Perez Contreras, D. Vilades Medel, E. Bertoli Ingles, J. Carreras Mora, C. Li, F. Carreras Costa, R. Leta Petracca (Barcelona, ES)</i>	
Stepwise protocols for scoring of mitral valve using three-dimensional transthoracic echocardiography in mitral stenosis	P776
<i>A. M. Anwar, W.A.E.L. Attia (Jeddah, SA; cairo, EG)</i>	
Three-dimensional ejection fraction is the most accurate method for diagnosing trastuzumab-induced cardiotoxicity	P777
<i>S. Grigoriadis, S. Kapetanakis (London, GB)</i>	
Correlations between two-and three dimensional echocardiography for right ventricular assessment in patients with chronic heart failure and atrial fibrillation	P778
<i>E. Majos, A. Kraska, I. Kowalik, E. Smolis-Bak, H. Szwed, P. Lipiec, J. Kasprzak, R. Dabrowski (Warsaw and Lodz, PL)</i>	
Right ventricular systolic dyssynchrony index by three-dimensional echocardiography in pulmonary hypertension patients with decreased right ventricular function.	P779
<i>M. Ayala-Leon, P. Hernandez, J. Oseguera, F. Aguilar, C. Orihuela (Mexico City, MX)</i>	
Diagnosis and prediction of late cardiovascular toxicity induced by RCHOP chemotherapy in non-Hodgkin lymphoma through 3D myocardial deformation and arterial stiffness	P780
<i>D. Mihalcea, R. Bruja, A.E. Balinisteanu, A.M. Vladareanu, D. Vinereanu (Bucharest, RO)</i>	
Echocardiography, Other	
Contribution of right atrial function and atrial electromechanical delay to symptoms in patients with paroxysmal or persistent atrial fibrillation.	P781
<i>D. Morales, Q. Almodares, V. Kujacic, K. Swedberg (Gothenburg, SE)</i>	
Is pericardial effusion a negative prognostic marker? Meta-analysis of outcomes of pericardial effusion	P782
<i>O. De Filippo, P. Gatti, S. Rettegno, M. Iannaccone, F. D'ascenzo, M. Imazio (Turin, IT)</i>	
Left ventricle remodelling and expression of angiotensin 2 AT2R1 gene relations	P783
<i>M.V. Krestjyaninov, R.H. Gimaev, M.A. Melnikova, N.V. Olezov, V.I. Ruzov (Ulyanovsk, RU)</i>	
Regional left ventricular and left atrial reservoir strain in patients with cardiac AL and transthyretin (TTR) amyloidosis	P784
<i>G. Baldenhofer, D. Frumkin, F. Knebel, V. Stangl, K. Stangl, A. Brand (Berlin, DE)</i>	

Left ventricular dysfunction during normal pregnancy in low risk women; fact or myth?	P786
<i>E. Tryfou, P. Kostakou, V. Kostopoulos, K. Keramida, G. Tsimekas, C.D. Olympios, N. Kouris (Athens, GR)</i>	
Cardiovascular effects of antiretroviral therapy in HIV-infected patients during 1 year follow-up: a speckle-tracking echocardiography study	P787
<i>N. Kasinos, M. Karakosta, A. Destounis, P. Zahos, C. Englezopoulos, C.H. Tountas, K. Hatzigeorgiou, D. Barbagiannis, N. Miaris, A. Kalesi, K. Yiangou, G. Chrysos, A. Theodosis-Georgilas, D. Beldekos, E. Pisimisis (Athens, GR)</i>	
The feasibility and usefulness of pocket-size echocardiography in the hands of non-cardiologist at the department of infectious diseases	P788
<i>A.E. Lorens, P. Wejner-Mik, J.D. Kasprzak, M. Jablkowski, A. Piekarska, Z. Deron, P. Lipiec (Lodz, PL)</i>	
Field position-specific cardiac phenotype in collegiate rugby players	P789
<i>H. Kitai, M. Ebato, M. Tsujiuchi, E. Kyuno, F. Tsunoda, T. Sambe, H. Suzuki, Y. Iso (Yokohama, JP)</i>	
Clinical, laboratory, and echocardiographic variables associated with uncontrolled resistant hypertension	P790
<i>A. Stevanovic, M. Dekleva, N. Ilic (Belgrade, RS)</i>	
Modelling of cardiac hemodynamics for better understanding of pathophysiology of secondary cardiomyopathy in combatants with combat trauma	P791
<i>N. Sydorova, A. Halushka, L. Sydorova (Kiev, UA)</i>	
Comparative evaluation of the carotid intima media thickness vs left coronary wall thickness and associated cardiovascular risk	P792
<i>F. Labombarda, M. Ruscica, S. Castelnuovo, C. Macchi, G. Mombelli, C. Sirtori (Caen, FR; Milan, IT)</i>	
Prevalence of preclinical left ventricular diastolic dysfunction in asymptomatic elderly individuals	P793
<i>A. Almaghraby, Y. Saleh, O. Abdelkarim, M. Abdelnaby (Alexandria, EG; Michigan, US)</i>	
Cardiotoxicity echocardiographic screening in HFpEF patients treated with doxorubicin	P794
<i>M. Trofenciu, M.F. Onel, V. Revenco, I. Cabac, S. Damascan, G. Verboczki, M. Puschita, R. Christodorescu, H. Branea, C. Hreniuc, A. Pop-Moldovan (Arad and Timisoara, RO; Chisinau, MD)</i>	
Predictive parameters for cardiovascular events in patients affected by multiple myeloma treated with carfilzomib	P795
<i>G. Bruno, I. Maffei, A. Iannaccone, T. Crea, M. Salvini, F. Gay, S. Bringhen, F. Veglio, A. Milan (Turin, IT)</i>	
Transfusion dependent and non transfusion dependent thalassemia: comparison of echocardiographic findings	P796
<i>E. Gherbesi, G. Malanchini, M. Squillace, C. Gobbi, M. Schiavone, F.B. Sozzi, L. Diehl, P. Perolo, C. Bonanomi, A. Bertoletti, G. Graziadei, M. Giuditta, M. Vicenzi, F. Lombardi (Milan, IT)</i>	
Cross-Modality and Multi-Modality Imaging Topics	
Similar disease progression in probands and family members with arrhythmogenic cardiomyopathy	P797
<i>M. Chivulescu, Vò.H. Lie, H. Skulstad, B.A. Popescu, R.O. Jurcut, T. Edvardsen, K.H. Haugaa (Oslo, NO; Bucharest, RO)</i>	
Increasing detection of cardiac amyloidosis: an echocardiographic approach to change clinical practice.	P798
<i>M. Boldrini, M. Gritti, F. Cappelli, S. Perlini, C.C. Quarta, T. Kotecha, A. Martinez-Naharro, H. Lachmann, A. Wechalekar, J. Gillmore, P.N. Hawkins, M. Fontana (London, GB; Firenze and Pavia, IT)</i>	
Physical activity is associated with impaired left ventricular function in patients with Lamin A/C mutations.	P799
<i>E. Skjolsvik, N.E. Hasselberg, L.A. Dejgaard, Vò.H. Lie, T. Edvardsen, K.H. Haugaa (Oslo, NO)</i>	
Mechanical dispersion by strain echocardiography as a robust predictive marker of severe arrhythmic events in subjects with truncating FLNC mutations.	P800
<i>E. Nakou, M. Akhtar, L. Lopes, T. Gkiosios, P.M. Elliott, K. Savvatis (London, GB)</i>	
Reverse septal curvature is related to more severe left ventricular remodelling and presence of ventricular arrhythmias in patients with hypertrophic cardiomyopathy	P801
<i>M. Rosca, D. Ciuperca, L. Mandes, A. Calin, C.C. Beladan, S. Botezatu, R. Enache, R. Jurcut, C. Ginghina, B.A. Popescu (Bucharest, RO)</i>	

Myocardial distribution of 99mTc-HMDP and regional longitudinal strain in aTTR amyloidosis cardiomyopathy	P802
<i>E. Merli, I. Grassi, A. Antonopoulos, G. Pontone, G. Cicchitelli, G. Amadei, E. Fabbri, E. Del Giudice (Faenza and Rimini, IT)</i>	
N-terminal pro-brain natriuretic peptide is related with both coronary flow velocity reserve and diastolic function in patients with hypertrophic cardiomyopathy	P803
<i>M. Tesic, A. Djordjevic-Dikic, D. Trifunovic, V. Giga, I. Jovanovic, N. Boskovic, O. Petrovic, J. Seferovic, P. Seferovic, S. Aleksandric, S. Juricic, G. Stankovic, Q. Ciampi, E. Picano, B. Beleslin (Belgrade, RS; Pisa, IT)</i>	
A comparison between 3D and 2D deformation imaging in detecting regional fibrosis in hypertrophic cardiomyopathy.	P804
<i>E. Pagourelas, O. Mirea, J. Duchenne, J. Van Cleemput, C.E. Papadopoulos, M. Mavroudi, N. Fragakis, J. Bogaert, V. Vassilikos, J.U. Voigt (Thessaloniki, GR; Leuven, BE)</i>	
Prevalence and prognostic impact of septal late gadolinium enhancement in acute myocarditis with or without preserved left ventricular function.	P805
<i>G. Angelico, M. Imazio, M. Andriani, L. Lobetti-Bodoni, O. Davini, C. Giustetto, M. Rinaldi (Torino, IT)</i>	
Sex differences in apical hypertrophic cardiomyopathy	P806
<i>P. Von Hafe Leite, N. Marques, L. Reis, C. Gomes, N. Craveiro, E. Reis, R. Guerreiro, R. Gomes, C. Ruivo, R. Faria, O. Azevedo (Guimarães, Faro, Coimbra, Lisboa, Santarem, Viseu, Evora, Angra do Heroísmo Leiria and Santo Tirso, PT)</i>	
Biventricular echocardiographic and magnetic resonance indices predict outcome in non-compaction cardiomyopathy	P807
<i>C. R. L. Rocon, M. Tabassian, M.D. Tavares De Melo, J.A. Araujo Filho, J.R. Parga Filho, L.A. Hajjar, R. Kalil Filho, E.A. Bocchi, J. D'hooge, V.M.C. Salemi (Sao Paulo, BR; Leuven, BE)</i>	
Myocardial scar detection in patient with hypertrophic cardiomyopathy: 2-dimensional multi-pulse echocardiography versus magnetic resonance evaluation.	P808
<i>G. Di Giannuario, N. Gaibazzi, A. Siciliano, S. Carigi, D. Grosseto, L. Farneti, S. Amati, F. Marzo, N. Candiotti, E. Cavagna, M. Pagliacci, P. Venturi, P. Caso, G. Piovaccari (Rimini, Parma and Napoli, IT)</i>	
Prognostic factors in apical hypertrophic cardiomyopathy	P809
<i>P. Von Hafe Leite, N. Marques, L. Reis, C. Gomes, N. Craveiro, E. Correia, R. Guerreiro, R. Gomes, C. Ruivo, O. Azevedo (Guimarães, Faro, Coimbra, Lisboa, Santarem, Viseu, Angra do Heroísmo and Leiria, PT)</i>	
Predictors of outcomes in tako-tsubo cardiomyopathy	P810
<i>P. Von Hafe Leite, N. Marques, R. Santos, N. Craveiro, A. Marques, H. Antunes, L. Reis, C. Ruivo, R. Guerreiro, O. Azevedo (Guimarães, Faro, Penafiel, Santarem, Lisboa, Viseu, Coimbra, Leiria and Evora, PT)</i>	
Long-term evolution and cardiac magnetic resonance predictors of outcome in patients with suspected myocarditis	P811
<i>J. J. Onaindia Gandarias, I. Rodriguez Sanchez, A. Anton Ladislao, A. Cacicedo Fernandez De Bobadilla, V. Gomez Sanchez, A. Capelastegui Alber, E. Astigarraga Aguirre, G. Oria Garcia, A. Urkullu Naveda, G. Zugazabeitia Irazabal, A. Romero Pereiro, A. Benegas Arostegui, J. Florido Perena, O. Quintana Raczka, S. Velasco Del Castillo (Galdakao, ES)</i>	
Echocardiographic parameters to suspect cardiac amyloidosis: a comparison with endomyocardial biopsy or scintigraphy	P812
<i>S. Ishihara, H. Okura, Y. Nakada, T. Nakano, T. Ueda, K. Onoue, S. Okayama, R. Kawakami, R. Mizuno, S. Fujimoto, Y. Saito (Kashiwara, JP)</i>	
Papillary muscles longitudinal strain and adjacent segments of left ventricular wall in hypertrophic cardiomyopathy patients	P813
<i>E. Pavlyukova, A.V. Evtushenko, A.F. Kanev, K.A. Smushlyaev, R.S. Karpov (Tomsk, RU)</i>	
Evaluation of the routine echocardiogram study of the right ventricle compared with cardiac magnetic resonance	P814
<i>S. Diaz Lancha, A. Tercero Martinez, M. Barambio Ruiz, J.C. Garcia Lopez, V. Ferrer Bleda, J.J. Portero Portaz, C. Urraca Espejel, J.C. Gallego Page (Albacete, ES)</i>	
The efficacy of using various echocardiographic methods for evaluating cardiac resynchronisation therapy	P815
<i>A.A. Yakubov, O.S. Salaev, R.R. Hamrayev, B.I. Narziev (Tashkent, UZ)</i>	
Multiparametric evaluation of right ventricular function in heart transplant recipients in comparison to cardiac magnetic resonance: Insights for allograft rejection and pulmonary hemodynamics	P816
<i>A. Colak, G. Erdemir, T. Hazirolan, B. Pirat, S. Eroglu, A. Aydinalp, H. Muderrisoglu, L.E. Sade (Ankara, TR)</i>	

14:00 - 18:00

POSTER SESSION

POSTER AREA

Clinical case poster session 3

All posters are on display from 14:00 to 18:00. From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography: Masses and Sources of Emboli

A rare case of a cardiac inflammatory pseudotumor causing subvalvular obstruction and severe aortic regurgitation detected by echocardiography	P817
<i>C. Oliveira Da Silva, C. Sequeira, A. Lundberg, A. Venkateshvaran, H. Abdulrahim, K. Szummer, A. Manouras (Stockholm, SE)</i>	
Device-associated left atrial thrombosis despite oral anticoagulation after percutaneous patent foramen ovale closure.	P818
<i>Tzimas, O. Muller, M. Kirsch, P. Monney (Lausanne, CH)</i>	
Dynamic left coronary artery occlusion as a rare manifestation of papillary fibroelastoma of the aortic valve	P819
<i>O. Savage, A. Albanese, S. Gedela, R. Jones, V. Caruso, A. Ali, J. Dungu (Basildon, GB)</i>	
Hypereosinophilic syndrome presenting as a large intraventricular thrombus	P820
<i>T. Grycewicz, K. Szymanska, A. Debska-Kozłowska, A. Lubinski (Lodz, PL)</i>	
Ruptured chordae tendinae anomalously attached to aortic valve, which is mimicking fibroelastoma	P821
<i>D.G. Park, W.W. Seo, S.E. Kim, J.H. Lee, K.R. Han, D.J. Oh (Seoul, KR)</i>	
A case of familial cardiac myxoma	P822
<i>C.M. Angelescu, A. Alexandrescu, S. Bradisteanu, A. Scafa Udriste, O. Tautu, M. Dorobantu (Bucharest, RO)</i>	
Diagnostic and treatment challenges in a patient with massive atrial thrombosis, pulmonary embolism and stroke	P823
<i>R. Copciag, A.O. Ciobanu, I. Corlan, D. Vinereanu (Bucharest, RO)</i>	
Echocardiography in the assessment of an unusual case	P824
<i>P. Demetriades, S. Apostolakis (Birmingham, GB)</i>	
Hydatidosis, an unusual cause of pulmonary hypertension	P825
<i>D. Cadil, C. Beladan, S. Botezatu, C. Ginghina, B. A. Popescu (Bucharest, RO)</i>	
Mobile thrombus in descending aorta in patient with embolic complications	P826
<i>A. Fojt, R. Kowalik, J. Kochanowski, G. Opolski (Warsaw, PL)</i>	
Stone heart	P827
<i>N.E.D.A. Behzadnia, Z.H. Ahmadi, F. Naghashzadeh, A. Serati (Tehran, IR)</i>	
Accidentally discovered right atrial and ventricular invasion by adrenal carcinoma: a case report	P828
<i>M. Hassan Abdelnabi, A. Almaghraby, Y. Saleh, A. Atteya, S. Elsamad (Alexandria, EG)</i>	
Cardiac chloroma or myeloid sarcoma of the heart: case report	P829
<i>M. Hassan Abdelnabi, A. Almaghraby, Y. Saleh, E. El Sharkawy (Alexandria, EG)</i>	
A metastatic primary lung carcinoma presenting as multiple embolic cerebral infarctions through a cardiac metastasis via pulmonary veins into the left atrium	P830
<i>M. Yeni (Isparta, TR)</i>	
An extensive caseous calcification of the mitral annulus possibly complicated with myocardial infarction	P831
<i>Nunes, M. Tavares Da Silva, C. Sousa, T. Pinho, M. Vasconcelos, J. Rodrigues, M. Paiva, A. Jose Madureira, M. Belchior Campelo, F. Macedo, M. Julia Maciel (Porto, PT)</i>	
Hypereosinophilic syndrome complicated by eosinophilic myocarditis: apical infiltration or thrombus?	P833
<i>M. Tajmir Riahi, M.R. Sajadieh, M.R. Chitsaz (Isfahan, IR)</i>	
Effectiveness of DOAC with initial intensive therapy on giant thrombus swiveling in the right atrium	P834
<i>Nakamura, T. Rokutanda, H. Kurokawa, Y. Onoue (Hitoyoshi, JP)</i>	

A suspicious mass in the pulmonary artery - the importance of differential diagnosis.	P835
<i>Faria Da Mota, R. Fernandes, J. Sousa Bispo, P. Azevedo, D. Silva, J.P. Guedes, J. Moura Ferreira, J. Amado, H. Mendonca Cafe, J. Mimoso, I. De Jesus (Faro, PT)</i>	
A left atrial mass, is this a typical myxoma?	P836
<i>N. Garcia Ibarrondo, L. Ruiz Gomez, G. Ramirez Escudero, M. Codina Prat, M. Manzanal Rey, I. Bravo Martinez, G. Aurrekoetxea Bajeneta, S. Cisneros Carpio, I. Lecumberri Cortes, A. Grande Astorkiza, J. Castillo De Juan, G. Zugazabeitia Irazabal, A. Cacicedo Fdez De Bobadilla, J. Lopez Izaguirre, M. Castellanos Alcalde (Bilbao and Galdacano, ES)</i>	
An unusual clinical presentation of a massive atrial myxoma	P837
<i>A. Tsagkridi, K. Keramida, P. Jain, J. Sehmi, N. Keenan, B. Ariff, J. Anderson, A. Griguer (Watford and London, GB)</i>	
Characteristics of left atrium thrombus as predictor for events in mitral stenosis patients	P838
<i>M. Ahmed, O. Virz (Riyadh, SA)</i>	
One patient, multiples diseases: the value of echocardiography	P839
<i>C. Costa Dias, E. Pereira, R. Maia, C. Teixeira, R. Lima, C. Mateus (Viana do Castelo, PT)</i>	
Cardiac metastasis of germ cell tumor "like beads" in the right heart chambers and also left atrium	P840
<i>T.S. Tan, S. Akturk, İ. Dincer, A. Mammadli, M. Mammadov, C. Erol (Ankara, TR)</i>	
Large right atrial appendage thrombus in an anticoagulated patient with paroxysmal atrial fibrillation: a rare and challenging case	P841
<i>B. Traynor, V. Voon, B. Hennessey, B. Mcadam (Dublin, IE)</i>	
Intraoperative and Interventional Echocardiography	
An adolescent with cardiac decompression syndrome	P842
<i>A. Anagnostopoulou, N. Eleftherakis, E.S. Karanasios (Athens, GR)</i>	
Aortic regurgitation secondary to prosthetic endocarditis that mimics aorto-ventricular fistula	P843
<i>T. Costagliola, R. Leone, G.M. Mastrogiovanni, P. Masiello, A. Silverio, R. Citro, M. Colombino, G. Del Negro, D. Triggiani, A. Longobardi, R. Leone, A. Bisogno, S. Iesu (Salerno, IT)</i>	
Intracardiac echocardiography for the diagnosis of right ventricular dysplasia/cardiomyopathy	P844
<i>S. Aursulesei, A. Bian, G. Cismaru, R. Rosu, M. Puiu, G. Gusetu, B. Caloian, H. Comsa, D. Pop, D. Zdrenghia (Cluj Napoca, RO)</i>	
Loss of leaflet insertion after percutaneous mitral valve repair requiring left ventricular assist device implantation	P845
<i>F.M. Melillo, F. Ancona, F. Calvo, A. Fisicaro, A. Beneduce, S. Stella, C. Capogrosso, R. Spoladore, M. Slavich, L. Bertoldi, F. Pappalardo, A. Margonato, E. Agricola (Milan, IT)</i>	
TAVI in TAVI: a new paradigm	P846
<i>H. Nascimento, R. Rodrigues, C. Sousa, M. Tavares-Silva, R. Pinto, P. Almeida, D. Magalhaes, J.C. Silva, F. Macedo, M.J. Maciel (Porto, PT)</i>	
An unexplained mass during atrial fibrillation ablation	P847
<i>Johar (Jerudong, BN)</i>	
Transjugular intracardiac echo guided transcatheter aortic valve replacement	P848
<i>Murakami, H. Horinouchi, K. Sakai, Y. Ohno, G. Nakazawa, Y. Ikari (Kanagawa, JP)</i>	
Wandering LAA-occluder	P849
<i>X. Galloo, N. De Beule, S. Geth, P. Vermeersch (Antwerp, BE)</i>	
Persistent right superior vena cava in a patient with dextrocardia - challenges of pacing lead implantation	P850
<i>A.E. Velcea, M.C.B. Suran, C. Siliste, D. Vinereanu (Bucharest, RO)</i>	
Acquired iatrogenic Gerbode defect after complicated transcatheter aortic valve implantation	P851
<i>M. Pellegrino, F. Cannata, B. Reimers, H. Ohtani, E. Corrada (Rozzano, IT)</i>	

Iatrogenic atrial septal defect after pulmonary vein isolation by cryoballoon, a rare complication?	P852
<i>P. Lerena, D. Serrano Lozano, C. Ruisanchez Villar, S. Gonzalez Lizarbe, V. Exposito Garcia, S. Gonzalez Enriquez, J.M. Cuesta Cosgalla, F. Rodriguez Entem, F. Gonzalez Vilchez, J.J. Olalla Antolin, J. Ruano Calvo (Santander, ES)</i>	
Successful trans-oesophageal echocardiogram guided assessment and closure of a traumatic ventricular septal defect without the use of angiographic contrast.	P853
<i>G. Delle Donne, M. Kasem, S. Moore, O. Watson, J. Bentham, J. Thomson, A. Deri (Leeds and Sheffield, GB)</i>	
Percutaneous closure of basal ventricular septal rupture post myocardial infarction	P854
<i>E. Alataresh, A. Hamada, N. Okleh, A. Siaidawi, I. Rafie, A. Almula (Doha, QA)</i>	
Steam pop during cavo-tricuspid isthmus ablation shown by intracardiac echocardiography	P855
<i>A.S. Santoro, A.R. Romano, C.B. Bellini, G.L. Lumia, A.G. Gaspardone, M.S. Mondillo, R.G. Gentilini, F.L. Lamberti (Siena and Rome, IT)</i>	

14:00 – 18:00

POSTER SESSION

POSTER AREA

Poster session 3

All posters are on display from 14:00 to 18:00. From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography: Systolic and Diastolic Function

Early a small decline in left ventricular ejection fraction can predict trastuzumab-related cardiotoxicity in patients with breast cancer: A study using 13 years of registry data P857

E. K. Kim, J.H. Cho, Y.H. Park, J.Y. Kim (Seoul and Inchon, KR)

Hemodynamic insights of the anrep effect in men using echo-derived pressure-volume analysis P858

J.C. Reil, M.H. Hohl, G.-H. R. Reil (Lübeck, Homburg/Saar and Oldenburg, DE)

New multiparametric evaluation of dyssynchrony, machine learning and prediction of response to cardiac resynchronization therapy P859

A. Hubert, E. Donal, V. Le Rolle, C. Leclercq, R.P. Martins, P. Mabo, E. Galli, A. Hernandez (Rennes, FR)

Predictive value of echocardiographic measurement for evaluating diastolic dysfunction in chronic atrial fibrillation patients with preserved left ventricular ejection fraction P860

J. Ahn, J.S. Byun (Gumi, KR)

Initial diastolic vortex formation in the left ventricle relates to the atrioventricular plane motion of the outflow tract P861

A. Daae, M. Wigen, L. Lovstakken, A. Stoylen (Trondheim, NO)

Takotsubo syndrome: prognostic predictors P862

C. Zito, M. Cusma-Piccione, R. Licordari, R. Citro, A. Carvelli, L. Longobardo, G. Ferrazzo, R. Manganaro, M.P. Campisi, R. Bitto, M.C. Guarneri, M.C. Cimmino, C. Morabito, S. Carerj (Messina and Salerno, IT)

Medium and long term effect of cardiac resynchronization therapy in patients with adult congenital heart disease P864

Y. Yin, E. Shamada, K. Dimopoulos, K. Lascelles, T. Wong, M. Gatzoulis, S. Babu-Narayan, W. Li (London, GB)

Diastolic dysfunction grade in acute coronary syndromes: comparison of 2009 and 2016 ASE/EACVI recommendations P865

S. Persampieri, F. Bursi, C. Bencini, L. Massironi, L. Bosotti, G. Ferrante, A. Caretta, F. Valli, L. Sabatelli, A. Tayar, D. Torta, D. Sansalone, F. Costa, D. Castini, S. Carugo (Milan, IT)

Mechanical dispersion and cardiotoxicity in patients who underwent chemotherapy for breast cancer: an echocardiographic study P866

C. Zito, L. Longobardo, M. Cusma-Piccione, R. Manganaro, C. Casile, A. Bava, G. De Blasi, R. Costantino, A. Bracco, M.C. Todaro, F. Ranieri, M.G. Daffina, C. D'angelo, G. Altavilla, S. Carerj (Messina, IT)

Echo-derived peak cardiac power output-to-left ventricular mass with cardiopulmonary exercise testing predicts outcome in patients with heart failure and depressed systolic function P867

N.R. Pugliese, I. Fabiani, G.G. Galeotti, A. D'agostino, C. Santini, I. Rovai, R. Pedrinelli, F.L. Dini (Pisa, IT)

Peak cardiac power output-to-left ventricular mass independently predicted the risk of adverse left ventricular remodeling in patients with heart failure and reduced ejection fraction P868

C. Santini, I. Fabiani, N.R. Pugliese, G.G. Galeotti, A. D'agostino, I. Rovai, R. Pedrinelli, F.L. Dini (Pisa, IT)

Echocardiography: Valve Disease

Low flow severe aortic stenosis and preserved left ventricular ejection fraction - echocardiographic characteristics and prognostic implications P869

A.D. Mateescu, A. Calin, C. Beladan, M. Rosca, R. Enache, S. Botezatu, D. Cadil, D. Ciuperca, C. Calin, C. Ginghina, B.A. Popescu (Bucharest, RO)

Relationship between left ventricular ejection fraction and mortality in asymptomatic and minimally symptomatic patients with severe aortic stenosis P870

Y. Bohbot, C. De Meester De Ravenstein, D. Rusinaru, K. Belkhir, A. Pasquet, S. Marechaux, J.L. Vanoverschelde, C. Tribouilloy (Amiens and Lille, FR; Brussels, BE)

Risk factors for tricuspid regurgitation in patients with intra-cardiac device leads P871

A. Orbach, D. Mutlak, J. Lessick, I. Kehat, D. Aronson, Y. Hellman, Y. Agmon (Haifa, IL)

Characteristics of patients with severe tricuspid regurgitation with or without device leads	P872
<i>Y. Agmon, A. Orbach, J. Lessick, I. Kehat, D. Aronson, Y. Hellman, D. Mutlak (Haifa, IL)</i>	
First-phase ejection fraction is a powerful predictor of adverse events in asymptomatic patients with aortic stenosis and preserved total ejection fraction	P873
<i>H. Gu, S. Saeed, A. Boguslavskyi, G. Carr-White, J. Chambers, P. Chowienczyk (London, GB; Bergen, NO)</i>	
Predictors of mortality and re-hospitalization in patients with severe tricuspid regurgitation	P874
<i>C. Santoro, A. Marco Del Castillo, A. Gonzalez-Gomez, J.M. Monteagudo Ruiz, A. Lorente, J.M. Vieitez Florez, M. Abellas Sequeiros, A. Garcia, R. Hinojar, J.J. Jimenez-Nacher, E. Casas Rojo, J.L. Moya Mur, J.L. Zamorano Gomez, C. Fernandez-Golfin (Madrid, ES)</i>	
The performance of the correction factor derived from ACTIV-LVOT study in aortic stenosis population using echocardiography	P875
<i>E. Alskaf, A. Kardos (Milton Keynes, GB)</i>	
Bicuspid aortic valve and aortic aneurysm: which size does it matter?	P876
<i>A. M. Nunes Ferreira, J. Rigueira, I. Aguiar-Ricardo, J.R. Agostinho, I. Santos-Goncalves, R. Santos, C. David, F. J. Pinto, A. G. Almeida (Lisbon, PT)</i>	
Fate and determinants of clinical outcomes in patients with mixed mitral valve disease	P877
<i>J. Cho, H. Jeong, J.Y. Choi, S.E. Lee, H.J. Chang (Seoul, KR)</i>	
Medical therapy and rate of change of aortic size in patients with bicuspid versus tricuspid aortic valve	P878
<i>Radulovic, G.-A. Rossner, J. Voegelé, G. De Pasquale, A. Faeh-Gunz, D. Maurer, B. Naegeli, P. Vogt, P. Berdat, C. Attenhofer-Jost (Zurich, CH)</i>	
Functional isolated tricuspid regurgitation: clues about the mechanism. Results from a french prospective multicenter observational study.	P879
<i>A. Guerin, E. Galli, C. Sportouch-Dukhan, J.C. Eicher, S. Marechaux, J. Ternacle, D. Bruere, C. Selton-Suty, G. Barone-Rochette, T. Le Tourneau, C. Tribouilloy, P. Reant, S. Lafitte, E. Donal (Rennes, Montpellier, Dijon, Lille, Creteil, Montauban, Nancy, Grenoble, Nantes, Amiens and Bordeaux, FR)</i>	
Significant mitral regurgitation in acute heart failure is associated adverse ventricular geometry, function and long-term prognosis	P880
<i>J. Stewart, O. Lazariashvili, A. Baltabaeva, I. Beeton, D. Fluck (Chertsey, GB)</i>	
The improvement of right ventricular function following percutaneous mitral valve repair using MitraClip system: an echocardiographic study	P881
<i>O. M. Galuszka, S. Rutschow, D. Steffens, M. Gross, U. Landmesser, M. Kasner (Berlin, DE)</i>	
Interplay between functional mitral regurgitation and left atrial function in patients with systolic heart failure: echocardiographic correlates and prognostic implications.	P882
<i>G. Palmiero, L. Ascione, E. Melillo, G. Carlomagno, A. Ferro, R. Ascione, S. Severino, V. Monda, P. Caso (Naples, IT)</i>	
Micrnas in different phenotypes of aortic valve stenosis	P883
<i>I. Fabiani, N.R. Pugliese, E. Calogero, L. Conte, M.C. Mazzanti, C. Scatena, C. Scopelliti, E. Tantillo, M. Passiatore, M. Angelillis, A.G. Naccarato, R. Di Stefano, A.S. Petronio, I. Ambrosini, V. Di Bello (Pisa, IT)</i>	
Comparison of four different methods to assess aortic stenosis severity and prognosis	P884
<i>P. R. Fazendas, A. Francisco, D. Caldeira, H. Pereira, A. G. Almeida (Almada and Lisbon, PT)</i>	
Echocardiography: Masses and Sources of Emboli	
Study of the factors involved in the thrombogenicity of the left atrium and left atrial appendage.	P885
<i>A. Garcia Martin, A. Pardo Sanz, M. Abellas Sequeiros, J.L. Moya Mur, L.M. Rincon Diaz, E. Casas Rojo, C. Santoro, A. Lorente Ros, A. Marco Del Castillo, A. Gonzalez Gomez, R. Hinojar, J.J. Jimenez Nacher, S. Ruiz Leira, J.L. Zamorano, C. Fernandez-Golfin (Madrid, ES)</i>	
Unusual place, unusual number. ... multiple non-valvular papillary fibroelastomas	P886
<i>M. J. Nobre De Matos Pereira Vieira, K. Domingues, B. Saldanha Santos, R. Cerejo, N. Craveiro, M. Saraiva, A.R. Moura, M. Alves, L. Pitta (Santarém and Lisbon, PT)</i>	

Right ventricular enlargement and dysfunction are independent risk factors for left ventricular thrombus formation after myocardial infarction	P887
<i>Liu, M. Chen, K. Hu, S. Herrmann, G. Ertl, S. Frantz, P. Nordbeck (Wuerzburg, DE)</i>	
Clinical rentability of echocardiography in acute ischemic stroke	P888
<i>Perez Contreras, G. Migone, D. Vilades Medel, C. Li, R. Leta Petracca, J. Marti Fabregas, F. Carreras Costa (Barcelona, ES)</i>	
Clinical significance associated with patent foramen ovale screening using transthoracic agitated saline echo in patients with cryptogenic stroke	P889
<i>M.K. Kang, D.G. Shin, J. Choi, S. Choi, J.R. Cho, N. Lee (Seoul, KR)</i>	
Some kind of monster	P890
<i>Craveiro, L. Pitta, A.R. Moura, M. Saraiva, M.J. Vieira, K. Domingues, M. Peres, M. Leal (Santarem, PT)</i>	
Monster in the heart	P891
<i>D. Vranes, Z. Mladenovic, A. Ristic, J. Maric Kocijancic, B. Dzudovic, V. Peric, N. Ratkovic, M. Sipcic, V. Milic, S. Obradovic (Belgrade, RS)</i>	
Tissue Doppler, Speckle Tracking and Strain Imaging	
Non-invasive measurement of the end-systolic circumferential tangent modulus based on circumferential strain by speckle tracking	P892
<i>T. Jaworski, M. Piwowar, T. Buck, B. Plicht (Dortmund, DE; Krakow, PL)</i>	
The acute impact of hemodialysis on high-sensitive troponin t levels and myocardial contractility	P893
<i>S. Unlu, A. Sahinarslan, G. Gokalp, B. Sezenoz, S. Ozden, S. T. Arinsoy, O. Gulbahar, N. B. Boyaci (Ankara, TR)</i>	
Evaluation of left ventricular papillary muscle strain as a comprehensive marker of left ventricular function	P894
<i>M. Ikeda, Y. Kajikawa, M. Hirota (Fukuyama, JP)</i>	
Myocardial deformation and acute cellular rejection after heart transplantation: intervencor variability using two different softwares and its impact in diagnostic effectiveness	P895
<i>S. Rodriguez Diego, M. Ruiz Ortiz, M. Delgado Ortega, J. Kim, J.W. Weinsaft, L. Carnero Montoro, J. Sanchez Fernandez, F. Carrasco Avalos, J. Lopez Aguilera, A. Lopez Granados, J.M. Arizon Del Prado, N. Paredes Hurtado, J. Oneto Fernandez, M. Pan Alvarez-Ossorio, D. Mesa Rubio (Cordoba, ES; New York, US)</i>	
Speckle tracking echocardiography identifies transient systolic impairment in children with focal myocarditis and normal ejection fraction	P896
<i>M. Chinali, A. Franceschini, V. Lisignoli, P. Ciliberti, C. Esposito, A. Del Pasqua, A.B. Cutri, A. Secinaro, G. Rinelli (Rome, IT)</i>	
Cardiac function assessed by myocardial deformation in adult polycystic kidney disease patients	P897
<i>M. H. Lassen, A.Q. Qasim, T.B.S. Biering-Sorensen, T.W. Watnick, S.L.S. Seliger, H.C. Chen, M.A.S. Sawan, D.N. Nguyen, Y.L. Li, S.N.H. Hong, M.P. Park (Copenhagen, DK; San Francisco and Baltimore, US)</i>	
Impact of ischemic heart disease on regional longitudinal strain pattern in cardiac amyloidosis	P898
<i>J. Radulovic, S. Caselli, T. Kovacevic-Preradovic, L. Melzer, C. Attenhofer-Jost (Zurich, CH; Banja Luka, BA)</i>	
Left atrial dysfunction in patients with type 1 diabetes mellitus: two-dimensional speckle-tracking echocardiographic study	P899
<i>G. Costola, C. Bergamini, C. Dematte, I. Fossa, A. Rossi, F. Baessato, F.L. Ribichini, G. Zoppini (Verona, IT)</i>	
New parameters for the evaluation of mechanic properties of the ascending aorta in Marfan syndrome	P900
<i>M. Torres Sanabria, V. Monivas Palomero, E. Garcia-Izquierdo Jaen, A. Forteza Gil, C.E. Martin Lopez, S. Navarro Rico, J. Baena Herrera, C. Aguilera Agudo, J. Gonzalez Mirelis, C. Mitroi, S. Mingo Santos (Madrid, ES)</i>	
Left ventricular ejection time is an independent predictor of cardiovascular morbidity and mortality following acute coronary syndrome	P901
<i>Saed Alhakak, K.G. Skaarup, A. Iversen, P. Brainin, P.G. Jorgensen, J.S. Jensen, T. Biering-Sorensen (Copenhagen, DK)</i>	

- Left ventricle global longitudinal strain is an independent predictor of poor outcome in patients with non-ischemic dilated cardiomyopathy. P902
I. Kazukauskienė, G. Balciunaite, V. Baltruniene, K. Rucinskas, V. Maneikiene, V. Grabauskienė (Vilnius, LT)
- Interatrial block and reduced global left atrial strain are related to atrial fibrillation onset in patients with cryptogenic stroke P903
L.G. Mendieta Badimon, F. Velasquez, D. Aristizabal, D. Weir, L. Sanchis, L. Llull, S. Montserrat, E. Guasch, L. Mont, R. Elosua, A. Bayes De Luna, M. Sitges (Barcelona, ES)
- Early identification of systemic involvement in juvenile systemic sclerosis by speckle tracking echocardiography P904
Castaldi, G. Civieri, E. Reffo, F. Zulian, O. Milanese (Padua, IT)
- Echocardiographic signs of load-induced cardiomyopathy in young Marfan subjects with no valvular disease. P905
A. Mas-Stachurska, R. De Bruin, B. Bouma, B. Bijmens, M. Sitges, J. Vleugels, A.P. Widyanti, B. Mulder (Barcelona, ES; Amsterdam, NL)
- Improvement in systolic function by cardiac resynchronization therapy with multipoint pacing as evaluated from echocardiography.results from a single-blind randomized study. P906
A. Barosi, A. Lanfranchi, M. Montella, R. Monno, J. Mangual, V. Ribatti, C. Tondo, M. Viecca, G.B. Forleo (Milan and Agrate Brianza, IT; Sylamr, US)
- The novel application of speckle tracking during dobutamine stress echo for assessment of coronary artery diseases. P907
N. Sen, T.A.N.W.A.R. Sonal, A.S.H.O.K. Jain, R. K. Gokhroo (Jaipur and Ajmer, IN)
- Left ventricular longitudinal strain is the marker of point of no return of hypertensive heart failure with preserved ejection fraction P908
T. Ishizu, Y. Seo, N. Murakoshi, T. Kimura, M. Ieda (Tsukuba, JP)
- Apical but not basal right ventricular strain reflects right ventricular dysfunction in patients with dilated cardiomyopathy P909
A.M. Hamdy, S. Aboul-Fadl, A. Ahmed Ali, N. Tolba (Cairo, EG)
- The impact of hypertension on LV subclinical dysfunction in chronic severe asymptomatic aortic regurgitation with normal LV systolic function: 2-D multilayer speckle tracking echocardiography P910
E. J. Cho, S. J. Park, S. A. Chang, J. O. Choi, S. C. Lee, S. W. Park (Goyang-si and Seoul, KR)
- Value of echocardiographic parameters in the estimation of left ventricular filling pressure in patients with cardiac amyloidosis P911
S. Brun, E. Cariou, P. Fournier, D. Ribes, S. Faguer, M. Galinier, D. Carrie, O. Lairez (Toulouse, FR)
- Evaluation of left ventricular function by 2D speckle tracking echocardiography 6 months after percutaneous coronary intervention in chronic total occlusion P912
S. Juricic, O. Petrovic, M. Tesic, M. Dobric, M. Dikic, M. Tomasevic, B. Beleslin, A. Djordjevic-Dikic, D. Trifunovic-Zamaklar, D. Orlic, S. Aleksandric, M. Zivkovic, V. Vukcevic, G. Stankovic, S. Stojkovic (Belgrade, RS)
- Association of interleukins 6,12,10 and oxidative stress with impaired endothelial glycocalyx, vascular function and myocardial deformation in psoriasis P913
I. Ikonomidis, M. Varoudi, G. Makavos, E. Papadavid, I. Andreadou, K. Gravanis, G. Kostelli, K. Theodoropoulos, I. Kapniari, G. Pavlidis, A.R. Vrettou, A. Fogoudaki, H. Triantafyllidi, J. Lekakis, E. Iliodromitis (Athens and athens, GR)
- Multilayer vs global 2D-longitudinal strain in hypertrophic cardiomyopathy. P914
A. Coppin, A. Duva Pentiah, A. Coisne, H. Ridon, S. Mouton, P. De Groote, D. Montaigne (Lille, FR)
- Left atrial dynamic changes and reduction of congestion in patients hospitalized for acute decompensated heart failure P915
M. Losito, A. Giammarresi, V. Labate, M. Caracciolo, F. Bandera, M. Roviada, M. Barki, E. Alfonzetti, M. Guazzi (Milan and Verona, IT)

Early changes in the parameters of left atrial and left ventricular deformation analyzed by speckle tracking echocardiography after tavi implantation	P916
C. Santoro, A. Pardo Sanz, R. Hinojar, A. Garcia, L. Salido, A. GonzalezGomez, J.J. Jimenez-Nacher, A. Marco Del Castillo, E. Ortega, R. Hernandez Antolin, J.L. Zamorano, C. Fernandez-Golfín (Madrid, ES)	
Relationship between speckle tracking echocardiography and late gadolinium enhancement and edema by cMR in acute myocarditis	P917
E. La Franca, D. Bellavia, C. Nugara, A. Taormina, G. Carmina, F. Clemenza, G.D. Aquaro, Novo, G. Novo (Palermo, palermo and Pisa, IT)	
Myocardial strain analysis by 2D speckle tracking for detection of obstructive coronary artery disease	P918
Sturmberger, L. Baldinger, C. Ebner, J. Aichinger, V. Eder (Linz, AT)	
Left atrial myocardial dysfunction after chronic abuse of anabolic androgenic steroids: a speckle tracking echocardiography analysis	P919
J. Radmilovic, A. D'andrea, A. Carbone, R. America, G. Tocci, S. Sperlongano, R. Pezzella, M. D'amato, F. Martone, R. Scarafille, S. Caselli, E. Bossone, M. Galderisi, P. Golino (Naples, Naples Italy, Rome and Salerno, IT)	
Transesophageal Echocardiography	
Atherosclerotic plaque detected in transesophageal echocardiography as an independent predictor for all-cause mortality	P920
H. Heidari, M. Schneider, G. Spinka, T. Binder, G. Goliasch (Vienna, AT)	
The role of systolic and diastolic function of left atrial appendage in prediction of recurrences in patients with paroxysmal atrial fibrillation undergoing pulmonary vein isolation.	P921
P. Serafeim, M. Agelaki, P. Manolakou, P. Koudounis, T. Zografos, A. Christou, A. Papadopoulos, K. Drivas, C. Papadopoulos, A. Katsivas (Athens, GR)	
Mitral annulus dysfunction in myxomatous mitral valve disease is related to mitral valve disease extension	P922
M. M. Gurzun, M. Rosca, A. Calin, C. Beladan, M. Serban, C. Ginhina, B.A. Popescu (Bucharest, RO)	
Infective endocarditis - a contemporary assessment of disease prevalence, patient characteristics, management and outcomes	P923
M. Dowley, N. Mcinerney, M. Kelly, S. Murphy, A. Lim, D. Burke (Dublin, IE)	
Stress Echocardiography	
Multi-step web-based training: the road to stress echo 2020	P924
Q. Ciampi, C. Carpegiani, M. Paterni, M. De Nes, A. Zagatina, F. Mori, A. Barbieri, A. Boshchenko, P.M. Merlo, K. Wierzbowska-Drabik, I. Simova, T. Preradovic-Kovacevic, R. Citro, P. Colonna, E. Picano (Benevento, Pisa, Florence, Modena, Salerno and Bari, IT; Saint Petersburg and Tomsk, RU; Buenos Aires, AR; Lodz, PL; Sofia, BG; Banja Luka, BA)	
Combined effect of ivabradine on coronary flow reserve and left ventricular contractile reserve in patients with coronary microvascular disease	P925
E. Tagliamonte, D. Alfano, R. Astarita, E. Golia, A. Coppola, C. Astarita (Nocera Inferiore and Sorrento, IT)	
Imaging functional stress-test for stable chest pain symptoms in subjects at low pre-test probability of coronary artery disease: current practice and long-term outcome	P926
A. Barbieri, M. Manicardi, G. Boriani, G. Benatti, G. Codazzo, Y. Bartolacelli, F. Bursi, C. Siniscalchi, N. Gaibazzi (Modena and Parma, IT)	
Prediction of cardiovascular, cancer and noncardiovascular noncancer death by exercise echocardiography.	P927
J. C. Peteiro Vazquez, A. Bouzas-Mosquera, C. Barbeito-Caamano, F. Broullon, J.M. Vazquez-Rodriguez (A Coruna, ES)	
The declining positivity rate of stress echocardiography based on regional wall motion abnormalities: where have all the patients with positive test gone?	P928
P. Ramirez, L. Cortigiani, M. Coltelli, F. Bovenzi, E. Picano (Mexico City, MX; Lucca and Pisa, IT)	
The declining prognostic value of a negative stress echo based on regional wall motion abnormalities. Is the "low risk" really low in contemporary patients?	P929
M.L. Urluescu, L. Cortigiani, M. Coltelli, F. Bovenzi, E. Picano (Sibiu, RO; Lucca and Pisa, IT)	

Prevalence of arrhythmias during exercise stress test in adult patients with congenital heart disease	P930
<i>C. Kavouras, K. Dimopoulos, R. Barracano, M. Brida, I. Cazzoli, L. Ilagan, W. Li (Athens, GR; London, GB)</i>	
Global myocardial work during exercise echocardiography and outcome in patients with asymptomatic severe aortic stenosis	P932
<i>Cimino, R. E. Dulgheru, S. Marchetta, F. Ilardi, G. D'amico, R. Manganaro, P. Lancellotti (Liege, BE)</i>	
The role of left ventricle myocardial regional deformation parameters during dobutamine stress to detect hemodynamically significant coronary artery stenoses	P933
<i>E. Rumbinaite, A. Karuzas, E. Tamulenaite, I. Jonauskiene, A. Gudaite, P. Jakuska, R. Benetis, J.J. Vaskelyte (Kaunas, LT)</i>	
Comprehensive characterization of biventricular mechanics by dipyridamole stress echocardiography in heart failure with preserved ejection fraction. A pilot study	P934
<i>G. Locorotondo, E. Vitale, L. Manfredonia, F. Gabrielli, F. Graziani, M. Antenucci, G.A. Lanza, L. Galiuto, F. Crea (Rome, IT)</i>	
A new role of imaging in the diagnosis of microvascular angina: layer-specific strain analysis during dipyridamole stress echocardiography	P935
<i>G.E. Mandoli, S. Minardi, F. Crudele, M. Stricagnoli, S. Lunghetti, F. D'ascenzi, S. Mondillo, M. Cameli (Siena, IT)</i>	
3D Echocardiography	
Exploring left and right cardiac remodeling in amateur half-Ironman athletes using 3D echocardiography.	P936
<i>F. Tournoux, M. Baudet, F. Lalonde, M. Gosselin, S.M. Martin, P. Ribeiro, A.S. Comtois (Montreal and Mont-Tremblant, CA)</i>	
The utility of novel three-dimensional speckle-tracking echocardiographic system in evaluation of global and regional right ventricular function	P937
<i>K. Sakata, J. Ito, A. Isaka, H. Mitsuda, M. Furuya, T. Minamishima, K. Matsushita, T. Satoh, K. Soejima, H. Yoshino (Tokyo, JP)</i>	
Real-time triplane versus simpsons biplane for left ventricle ejection fraction estimation after myocardial infarction: a prospective study	P938
<i>D. Bras, C. Reis, M.J. Andrade, E. Horta, D. Matos, C. Brizido, R. Ribeiras, G. Cardoso, M. Canada, M. Mendes (Lisbon, PT)</i>	
Variability of three-dimensional left ventricular ejection fraction in patients on chemotherapy	P939
<i>S. Grigoriadis, S. Kapetanakis (London, GB)</i>	
Alterations in mitral annular size and function in patients with borderline left ventricular ejection fraction -a three-dimensional speckle-tracking echocardiographic study	P940
<i>A. Nemes, Z. Kovacs, A. Kormanyos, P. Domsik, A. Kalapos, C. Lengyel, T. Forster (Szeged and Baja, HU)</i>	
Comparison of methods used to assess left ventricular ejection fraction in patients on chemotherapy	P941
<i>S. Grigoriadis, S. Kapetanakis (London, GB)</i>	
Mitral annulus is dilated in acromegaly regardless of its activity -a three-dimensional speckle-tracking echocardiographic study	P942
<i>A. Kormanyos, Z. Kovacs, P. Domsik, A. Kalapos, C. Lengyel, Z. Valkusz, T. Forster, A. Nemes (Szeged and Baja, HU)</i>	
Mitral annular morphology and function in lipedema -a three-dimensional speckle-tracking echocardiographic study	P943
<i>Nemes, A. Kormanyos, P. Domsik, A. Kalapos, L. Kemeny, T. Forster, G. Szolnoky (Szeged, HU)</i>	
Automatic detection of mitral valve morphological parameters from reconstructed 3D echo: application to degenerative mitral valve regurgitation	P944
<i>Biffi, S. Gopee, L. Di Micco, E. Milano, A. Fiocco, F. M. Susin, A. Colli, S. Schievano (London, GB; Padua, IT)</i>	
Echocardiography, Other	
Coronary flow reserve in relation to endogenous testosterone and target organ damage in essential hypertensive males with erectile dysfunction	P945
<i>A. Angelis, K. Aggeli, N. Ioakeimidis, K. Zisimos, A. Verveniotis, K. Aznaouridis, C. Georgakopoulos, I. Gourgouli, L. Raptopoulos, A. Kromydas, A. Synodinos, C. Vlachopoulos, D. Tousoulis (Athens, GR)</i>	

Echocardiography for patients with adult congenital heart disease: a call for action	P946
<i>C. West, C. Kavvouras, C. Flick, L. Ilagan, J. Cervantes, E. Surkova, M. Gatzoulis, R. Senior, K. Dimopoulos, W. Li (London, GB)</i>	
Right heart end-systolic remodeling index: preliminary evaluation of a novel echocardiographic parameter for risk stratification in children with primitive pulmonary arterial hypertension.	P948
<i>M. Chinali, G. Grutter, A. Franceschini, S. Alfieri, D. De Angelis, C. Esposito, A. Del Pasqua, A.B. Cutri, F. Parisi, G. Rinelli (Rome, IT)</i>	
Thoracic echo in diagnosis and monitoring of pulmonary congestion in heart failure	P949
<i>M. Tsverava, D. Tsverava (Tbilisi, GE)</i>	
Diagnostic role of echocardiography and high-sensitive Troponin in patients admitted to the emergency room with suspect noST-segment elevation acute myocardial infarction	P950
<i>L. Manfredonia, G. Lanza, F. Crudo, P. Lamendola, F. Graziani, A. Villano, G. Locorotondo, V. Melita, E. Mencarelli, F. Crea (Rome, IT)</i>	
Right heart echocardiographic parameters in prediction of elevated pulmonary artery pressure and right heart dysfunction among WHO III pulmonary hypertension patients	P951
<i>K. Gasparovic, D. Lovric, G. Pavlisa, V. Reskovic Luksic, J.L.J. Macek, M. Jakopovic, M. Brestovac, D. Dosen, Z. Ostojic, A. Hecimovic, A. Vukic Dugac, M. Jankovic, D. Milicic, M. Samarzija, J. Separovic Hanzevacki (Zagreb, HR)</i>	
Epicardial adipose tissue is a marker of structural heart disease in patients with heart failure and preserved ejection fraction	P952
<i>R. Formisano, L. Petraglia, F.V. Grieco, A. Caruso, M.G. Grimaldi, D. Vitale, M. Conte, S. Provenzano, N. Ferrara, D. Leosco, V. Parisi (Naples and Maddaloni, IT)</i>	
Comparison of global longitudinal strain to pulse wave velocity ratio with arterial elastance to left ventricular elastance ratio for target organ damage assessment in hypertensives	P953
<i>I. Ikonomidis, S. Katsanos, H. Triantafyllidi, J. Parissis, S. Tzortzis, P. Trivilou, D. Benas, M. Varoudi, A.R. Vrettou, A. Frogoudaki, G. Kostelli, G. Pavlidis, D. Vlastos, J. Lekakis, E. Iliodromitis (Athens, GR)</i>	
Right ventricular systolic pressure predicts the future development of atrial fibrillation in patients with ESRD	P954
<i>H. Chung, J.M.L. Lee, J.S.W. Woo, J.B.K. Kim, S.J.K. Kim, W.K. Kim, W.S.K. Kim, K.S.K. Kim (Seoul, KR)</i>	
Association of microRNA-21 gene expression levels with the deterioration of left ventricular global longitudinal peak strain in patients with essential hypertension	P955
<i>M. Marketou, J. Kontaraki, S. Maragkoudakis, H. Nakou, M. Vernardos, J. Konstantinou, M. Platakis, E. Katsouli, A. Patrianakos, K. Roufas, K. Fragiadakis, S. Kassotakis, F. Parthenakis (Heraklion, GR; London, GB)</i>	
Prevalence of right ventricular dysfunction in patients with severe aortic stenosis undergoing TAVI.	P956
<i>A. Pardo Sanz, C. Santoro, R. Hinojar, L. Salido, A. Gonzalez, A. Garcia, M. Abellas, J.J. Jimenez, V. Barletta, J.M. Monteagudo, A. Marco, S. Ruiz, R. Hernandez, J.L. Zamorano, C. Fernandez Golfín (Madrid, ES)</i>	
Novel echocardiographic indices and biomarkers in the evaluation of patients with pulmonary hypertension due to left heart disease.	P957
<i>D. Kristo, M. Didagelos, C.H. Karvounis (Thessaloniki, GR)</i>	
Beneficial changes of ventricular-arterial coupling during treatment are associated with dynamics of parameters of myocardial deformation and decongestion in patients with decompensated heart failure	P958
<i>O. Lukina, A. Soloveva, I. Meray, S. Villevalde, Z. Kobalava (moscow, RU)</i>	
Prognostic role of lung-heart-inferior vena cava ultrasound integrated evaluation in patients with acute dyspnea in the emergency department.	P959
<i>L. Sasso, M. Zanatta, A. Lucarini, V. Cianci (Pontedera (PI) and Arzignano (VI), IT)</i>	
Echo-dynamics: non-invasive echocardiographic hemodynamic monitoring in comparison with pulmonary artery catheter	P960
<i>S. Suma, T. Manca, F. Corradi, A. Ramelli, F. Boffetti, F. Nicolini, N. Gaibazzi, G. Paoli, S. Coli, C. Spaziani, M.A. Cattabiani, F. Cozza, T. Gherli, A. Vezzani (Parma, IT)</i>	

Cross-Modality and Multi-Modality Imaging Topics

Identifying the value of the Genetic testing for the risk stratification in HCM, interpreted in conjunction with the findings on echocardiography and CMR imaging	P961
<i>H. Y. Kim, K.K.H. Kim, R. H.E.O. Heo, J.H.C.H.O.I. Choi, S.C. L.E.E. Lee (Gwangju and Seoul, KR)</i>	
Left ventricular remodelling results in homogenisation of myocardial metabolism distribution	P962
<i>J. Duchenne, A. Turco, S. Unlu, E. Pagourelas, K. Vunckx, G. Degtiarova, S. Bezy, M. Cvijic, J. Nuyts, P. Claus, F. Rega, O. Gheysens, J.-U. Voigt (Leuven, BE)</i>	
Screening strategy for assessment of left ventricular diastolic dysfunction using cross-modality characterization of electromechanical coupling	P963
<i>M. Tokodi, H. Kulkarni, G. Casacang-Verzosa, L. Hu, S. Shrestha, M. Ashraf, P.P. Sengupta (Morgantown and San Antonio, US)</i>	
Left atrial enlargement is a predictor of heart failure and cardiovascular events after acute coronary syndromes	P964
<i>S. Cardoso Torres, C. Resende, P. Maia Araujo, A. Nunes, S. Maia, C. Sousa, M.J. Maciel, F. Macedo (Porto, PT)</i>	
Echocardiographic picture of prosthesis valve endocarditis after transcatheter aortic valve implantations	P965
<i>P. Scislo, B. Rymuza, K. Zbronski, M. Marchel, J. Kochman, J. Kochanowski, Z. Huczek (Warsaw, PL)</i>	
Left ventricular myocardial work efficiency in patients with high versus low gradient severe aortic stenosis and preserved left ventricular ejection fraction	P966
<i>A. Calin, A.D. Mateescu, M. Rosca, C.C. Beladan, R. Enache, D. Cadil, D. Ciuperca, C. Ginghina, B.A. Popescu (Bucharest, RO)</i>	
Percutaneous closure of paravalvular leaks: improving the anatomy of the leak with multimodality imaging, a single center experience	P967
<i>A. Galrinho, L. Branco, A. Fiarresga, D. Cacela, P. Pinto-Teixeira, J. Abreu, A. Timoteo, R. Ferreira (Lisboa, PT)</i>	
18F-fluorodeoxyglucose positron-emission/computed tomography and cardiac computed tomography angiography as a diagnostic tool for suspected transcatheter aortic valve implantation endocarditis	P968
<i>L.E. Swart, A.R. Wahadat, W. Tanis, A. Scholtens, N.M.D.A. Van Mieghem, C.A.M. Schurink, G.P. Krestin, J.W. Roos-Hesselink, R.P.J. Budde (Rotterdam, The Hague and Utrecht, NL)</i>	
Comparison between self-expandable valve and balloon-expandable valve on impacts of an aortoventricular angle on a deployment angle of transcatheter heart valve	P969
<i>Y. Wada, A. Omuro, A. Fujii, T. Ariyoshi, M. Kawamura, S. Okuda, N. Tanaka, M. Yano (Ube, JP)</i>	
Global longitudinal strain assessment by computed tomography and echocardiography in severe aortic stenosis patients - Feasibility using feature tracking analysis	P970
<i>M. Fukui, J. Xu, M. Sharbaugh, F. Thoma, A. Althouse, G. Pedrizzetti, J. Cavalcante (Pittsburgh, US; Trieste, IT)</i>	
An image-derived, patient-specific computer simulation tool to test mitral valve treatment	P971
<i>B. Biffi, C. Capelli, M. Gritti, M. Fontana, S. Anderson, J. Davar, P. Jeetley, C.J. Whelan, A. Grasso, S. Schievano (London, GB)</i>	
Relationship between central valvuloarterial impedance and inappropriate left ventricular mass	P972
<i>S. Gamaza Chulian, B. Diez Del Corral, E. Diaz Retamino, B. Serrano Munoz, E. Otero, I. Monge Garcia (Jerez, ES)</i>	
Three-dimensional transesophageal echocardiography in mitral and tricuspid valve surgery	P973
<i>V. Dzhankeeva, E.Z. Golukhova, T.V. Mashina, D.V. Mrikaev, G.A. Shamsiev (Moscow, RU)</i>	
Combined value of coronary CT angiography and myocardial stress imaging as gatekeepers for invasive coronary angiography	P974
<i>P. Meersman, L. Vaes, C. Van De Heyning, H. Heuten, R. Salgado, P. Parizel, B. Shivalkar (Antwerp, BE)</i>	
A comparison of NICE and ESC guidelines for the investigation of stable chest pain in two UK centres	P975
<i>G. F. Vaughan, A. Papachristidis, S. J. Denny, T. Griffiths, E. Saunders, J. Byrne, M. J. Monaghan, K. Alfakih (London, GB)</i>	

Epicardial fat tissue: an useful tool to predict coronary artery disease?	P976
<i>J. Ferreira, R. Martins, S. Monteiro, R. Baptista, F. Goncalves, E. Jorge, V. Matos, J. Calisto, J. Marques, L. Leite, M. Santos, L. Goncalves (Coimbra, PT)</i>	
Comparison among invasive fractional flow reserve, coronary flow velocity reserve and myocardial flow reserve for assessing hemodynamic significance of the left anterior descending artery stenosis	P977
<i>A. Boshchenko, A. Vrublevsky, K. Zavadovskiy, A. Mochula, A. Krylov, A. Baev (Tomsk, RU)</i>	
Cardiopulmonary exercise testing on a treadmill is superior than on a recumbent ergometer in the quantification of coronary artery disease	P978
<i>D. Popovic, I. Petrovic, M. Banovic, R. Lasica, D.J. Jakovljevic, R. Arena (Belgrade, RS; Newcastle upon Tyne, GB; Chicago, US)</i>	
Additional value of cardiac magnetic resonance in patients with myocardial infarction with non-obstructive coronary arteries (MINOCA)	P979
<i>B. Tayal, P. Freeman, F. Ericsson, K.H. Kragholm, N.H. Andersen, J. Aaroe, P. Sogaard, T. Zaremba (Aalborg and Hjorring, DK)</i>	
Myocardial infarction with non-obstructive coronary arteries: clinical course and diagnostic value of cardiac magnetic resonance imaging	P980
<i>A.R. Pereira, A.R. Almeida, I. Cruz, A. Marques, S. Alegria, A.C. Gomes, A. Briosas, D. Sebaiti, L.R. Lopes, M. Ramalho, H. Pereira (Almada, PT; London, GB)</i>	

Friday 7 December



- > Browse the most up-to-date scientific programme in the EuroEcho-Imaging Mobile App



- > Missed a session? Consult videos, slides sets, abstracts and ESC TV interviews on the NEW ESC 365
www.escardio.org/365



- > Tweet about your favourite sessions **#EuroEcho**



EACVI
European Association of
Cardiovascular Imaging

Euro**CMR** 2019

EXTENDING THE CLINICAL VALUE OF CMR
THROUGH QUALITY AND EVIDENCE

2-4 May
Venice
I T A L Y

- **17th Annual Meeting**
on Cardiovascular Magnetic Resonance (CMR)
of the European Association of Cardiovascular Imaging (EACVI)

www.escardio.org/EACVI

#Euro**CMR**



ESC
European Society
of Cardiology

Morning Sessions

08:30 - 10:00 MAIN SESSION MILAN

Cardiomyopathies and sudden death in athletes

Chairperson(s): **F. Carre (Rennes, FR); A. Linhart (Prague, CZ)**

- 08:30 › Can endurance exercise harm the heart? 981
A. La Gerche (Melbourne, AU)
- 08:52 › Athletes vs hypertrophic cardiomyopathy. 982
F. Carre (Rennes, FR)
- 09:15 › Athletes vs dilated cardiomyopathy. 983
F. Schnell (Rennes, FR)
- 09:37 › Athletes vs Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC). 984
K. H. Haugaa (Oslo, NO)

08:30 - 10:00 DEBATE SESSION ROME

Tea for two in the operating theatre

Chairperson(s): **E. Schwammenthal (Tel Hashomer, IL); G. Maurer (Vienna, AT)**

- 08:30 › Percutaneous mitral valve replacement: the imager expertise. 985
A. M. Duncan (London, GB)
- 08:52 › Percutaneous mitral valve replacement: the interventionist expertise. 986
R. S. Von Bardeleben (Mainz, DE)
- 09:15 › Mitral valve repair: the imager expertise. 987
A.J. Berrebi (Issy Les Moulineaux, FR)
- 09:37 › Mitral valve repair: the surgeon expertise. 988
K. Zannis (Paris, FR)

08:30 - 10:00 CLINICAL IMAGING PALERMO

The interaction between valve disease and heart failure: the role of cardiac imaging



Joint session with the Saudi Heart Association (SHA)

Chairperson(s): **G. Habib (Marseille, FR); A. J. Kinsara (Jeddah, SA)**

- 08:30 › Aortic stenosis: pressure overload, hypertrophy and decompensation. 989
P. Pibarot (Quebec, CA)
- 08:52 › Aortic regurgitation: the long run from volume overload to heart failure. 990
S. Al Ahmari (Riyadh, SA)
- 09:15 › Mitral regurgitation and afterload mismatch: the pathway towards failure. 991
A. Coisne (Lille, FR)
- 09:37 › Mitral stenosis and "barrage" pulmonary hypertension. 992
D. Galzerano (Riyadh, SA)

08:30 - 10:00 TEACHING COURSE TURIN

Advanced echo techniques I: quantitation of cardiac function and mechanics

Chairperson(s): L. Badano (Padova, IT); J. Hung (Boston, US)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- 08:30 › Myocardial fibers and cardiac mechanics. 993
B. Bijnens (Barcelona, ES)
- 08:52 › Tissue doppler and 2D speckle-tracking. 994
M. Cikes (Zagreb, HR)
- 09:15 › 3D deformation. 995
P. P. Sengupta (Morgantown, US)
- 09:37 › Intraventricular mechanical dyssynchrony and dispersion. 996
E. Galli (Rennes, FR)

08:30 - 10:00 DEBATE SESSION NAPLES

Controversies in imaging coronary artery disease

Chairperson(s): D. Neglia (Pisa, IT); P. Maurovich-Horvat (Budapest, HU)

- 08:30 › Positioning of the topic: cardiac Computed Tomography as first-line test for coronary disease: nice, but wise? 997
P. Maurovich-Horvat (Budapest, HU)
- 08:40 › Cardiac Computed Tomography as first-line test for coronary disease: nice, but wise ? - PRO. 998
P. Maurovich-Horvat (Budapest, HU)
- 08:50 › Cardiac Computed Tomography as first-line test for coronary disease: nice, but wise ? - CONTRA. 999
L. J. Shaw (Atlanta, US)
- 09:00 › Rebuttal - PRO. 1000
P. Maurovich-Horvat (Budapest, HU)
- 09:03 › Rebuttal - CONTRA. 1001
L. J. Shaw (Atlanta, US)
- 09:06 › Conclusion and take home message. 1002
P. Maurovich-Horvat (Budapest, HU)
- 09:15 › Positioning of the topic: cardiac magnetic resonance for all acute coronary syndromes without coronary artery stenosis. 1003
D. Neglia (Pisa, IT)
- 09:25 › Cardiac magnetic resonance for all acute coronary syndromes without coronary artery stenosis - PRO. 1004
C. Bucciarelli-Ducci (Bristol, GB)
- 09:35 › Cardiac magnetic resonance for all acute coronary syndromes without coronary artery stenosis - CONTRA. 1005
J. D. Thomas (Chicago, US)
- 09:45 › Rebuttal - PRO. 1006
C. Bucciarelli-Ducci (Bristol, GB)
- 09:48 › Rebuttal - CONTRA. 1007
J. D. Thomas (Chicago, US)
- 09:51 › Conclusion and take home message. 1008
D. Neglia (Pisa, IT)

Morning Sessions

08:30 - 10:00 CLINICAL IMAGING GENOA

Which role of cardiac imaging in pre-participation screening of competitive athletes**Chairperson(s): K. Yiangou (Nicosia, CY); S. Gati (London, GB)**

- 08:30 › Controversy between American and European point of view on pre-participation screening. 1009
D. Corrado (Padova, IT)
- 08:52 › Indications for imaging testing in athletes. 1010
S. Caselli (Zurich, CH)
- 09:15 › Criteria for differential diagnosis and risk stratification of cardiomyopathies and valve heart diseases. 1011
N. Cardim (Lisbon, PT)
- 09:37 › Criteria for differential diagnosis and risk stratification of coronary artery diseases and myocardial bridging. 1012
A. D'Andrea (Naples, IT)

08:30 - 10:00 SYMPOSIUM VENICE

Stress and exercise imaging in congenital heart disease**Chairperson(s): R. Heying (Leuven, BE); G. Di Salvo (London, GB)**

- 08:30 › Imaging pitfalls of exercise and stress imaging and how to deal with them. 1013
B. Cifra (Toronto, CA)
- 08:52 › Use of stress imaging in the congenitally malformed heart before sport. 1014
W. A. Helbing (Rotterdam, NL)
- 09:15 › Exercise imaging in fontan patients: insights into fontan physiology. 1015
A. Van De Bruaene (Leuven, BE)
- 09:37 › Stress and exercise imaging in patients at risk of pulmonary hypertension. 1016
T. Moller (Oslo, NO)

08:30 - 10:00 RAPID FIRE ABSTRACTS AGORA

Diagnostic and prognostic value of cardiac mechanics

Fast paced and interactive session with key messages of 10 abstracts.

Rapid Fire Abstracts session = Oral Communication

Chairperson(s): F. W. Prinzen (Maastricht, NL); C. Zito (Messina, IT)

- 08:30 › Panel of experts: 1017
J. Duchenne (Leuven, BE); J. Kisslo (Durham, US)
- 08:30 › Implementation of echocardiographic deformation imaging for optimal assessment of disease progression in early arrhythmogenic right ventricular cardiomyopathy 1018
K. Taha, T.P. Mast, M.J.M. Cramer, J.F. Heijden, P.A. Doevendans, A.J. Teske (Utrecht, NL)
- 08:39 › Prognostic value of mechanical dispersion after transfemoral aortic valve implantation 1019
L. G. Klæboe, P.H. Brekke, O.H. Lie, L. Aaberge, K.H. Haugaa, T. Edvardsen (Oslo, NO)
- 08:48 › Left ventricular global longitudinal strain independently predicts cardiac death and ventricular tachyarrhythmias in patients with heart Failure and reduced ejection fraction. 1020
G. G. Galeotti, N.R. Pugliese, I. Fabiani, R. Citro, P. Colonna, V. Manupelli, F. Antonini-Canterin, F. Benedetto, F.L. Dini (Pisa, Salerno, Bari, Foggia, Motta di Livenza and Reggio Calabria, IT)
- 08:57 › Ratio of transmitral early filling velocity to early diastolic strain rate predicts cardiovascular morbidity and mortality in participants from the general population with preserved diastolic function 1021
M. H. Lassen, S.B.S. Biering-Sorensen, F.J.O. Olsen, R.M. Mogelvang, J.S.J. Jensen, T.B.S. Biering-Sorensen (Copenhagen, DK)

Morning Sessions

09:06 ›	Why septal deformation is a good predictor for response to cardiac resynchronization therapy: mechanistic insights in the role of septal activation delay <i>P. R. Huntjens, E. Willemsen, J. Walmsley, S. Ploux, P. Bordachar, T. Delhaas, F.W. Prinzen, J. Lumens (Maastricht, NL; Bordeaux-Pessac, FR)</i>	1022
09:15 ›	Decreased left atrial global longitudinal strain is associated with poor clinical outcomes in admitted patients with acute heart failure <i>I.W. Seong, J.H. Park, J.J. Park, J.B. Park, G.Y. Cho (Daejeon, Seongnam and Seoul, KR)</i>	1023
09:24 ›	Strain rate is better than strain to diagnose myocardial functional reserve: a machine learning study <i>M. Tabassian, I. Sunderji, T. Erdei, S. Sanchez-Martinez, A. Degiovanni, P. Marino, A. G. Fraser, J. D'hooge (Leuven, BE; Cardiff, GB; Barcelona, ES; Novara, IT)</i>	1024
09:33 ›	Right ventricular global longitudinal strain by 2D speckle tracking echocardiography or by cMR-feature tracking has higher additional prognostic value than cMR-RVEF to predict CV death in HF-rEF <i>L. Houard, M.S. Amzulescu, D. Vancraeynest, M. F. Rousseau, J.L. Vanoverschelde, S. Pierard, A.C. Pouleur, B. Gerber (Brussels, BE)</i>	1025
09:42 ›	Multilayer analysis of ventricular myocardial deformation by speckle tracking: a potential new tool for a better characterization of heart failure continuum <i>R.C. Rimbis, S. Mihaila-Baldea, A.A. Andronic, M.L. Luchian, A.M. Chitroceanu, H. Memis, A. Velcea, S.I. Visoiu, D. Vinereanu (Bucharest, RO)</i>	1026
09:51 ›	Prognostic value of echocardiographic parameters in pediatric patients with ebstein's anomaly: a 60 month follow up study. <i>C. Prota, J. Sabatino, V. Bucciarelli, J. Paredes, M. Uy, M. Josen, A. Hoschitzky, G. Michielon, A. Fraisse, G. Di Salvo (London, GB)</i>	1027

08:30 - 10:00 WORKSHOP TOE ROOM

Focus on critical patient in Coronary Care Unit (CCU)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

08:30 ›	Presenters: <i>A. Salustri (Doha, QA); N. Ajmone Marsan (Leiden, NL)</i>	1028
---------	---	------

10:00 - 11:00 SPECIAL EVENT TURIN

EACVI General Assembly



Updates on the latest achievements and future developments of the association.
All EACVI members are welcome to attend.

10:00-10:15 ›	Welcome address and strategic plan 2018-2020 <i>T. Edvardsen</i>
10:15-10:25 ›	CMR section update <i>S. Petersen</i>
10:25-10:35 ›	Echo Section update <i>M. Galderisi</i>
10:35-10:45 ›	NucCCT Section update <i>A. Gimelli</i>
10:45-10:50 ›	Finances <i>B. Cosyns</i>
10:50-11:00 ›	Membership update <i>B. Popescu</i>

10:00 - 11:00

MEET THE EXPERTS

AGORA

Meet the Experts session**Chairperson(s): A. Varga (Szeged, HU); A. Garcia-Alvarez (Barcelona, ES)**

- 10:00 › Complications of valve prostheses: imaging-guided optimization of patient management. 1029
T. Le Tourneau (Nantes, FR)
- 10:20 › Discussion.
- 10:30 › Echocardiography in critical care and mechanical circulatory support: pearls and pitfalls. 1030
S. Price (London, GB)
- 10:50 › Discussion.

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS 1

What is new in valvular heart disease?**Chairperson(s): M. Garbi (London, GB); R. Capoulade (Nantes, FR)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00.**Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.*

- Early hemodynamic performance of transcatheter versus surgical aortic valves in patients with small aortic annulus 1031
R. Horita, M. Ota, Y. Sasaki, K. Kim, T. Yamane, T. Kitai, A. Kobori, N. Ehara, M. Kinoshita, S. Kaji, T. Koyama, Y. Furukawa (Kobe, JP)
- Body weight status and post-operative predictive significance of effective prosthetic orifice area after aortic valve replacement 1032
A. Coisne, S. Ninni, J.L. Edme, T. Modine, S. Mouton, H. Ridon, C. Klein, S. Ortmans, M. Koussa, A. Vincentelli, F. Juthier, B. Staels, P. Lancellotti, D. Montaigne (Lille, FR; Liege, BE)
- Initial documentation of newly developed functional mitral regurgitation after transcatheter aortic valve implantation in patients with aortic stenosis 1033
H. Horinouchi, Y. Ohno, T. Nagai, S. Matsumoto, J. Miyamoto, K. Sakai, T. Murakami, M. Nakano, G. Nakazawa, K. Yoshioka, Y. Ikari (Tokyo and Kanagawa, JP)
- Stress echocardiography and strain in aortic regurgitation (SESAR protocol): left ventricular contractile reserve in asymptomatic patients with severe aortic regurgitation 1034
T. Formisano, A. D'andrea, R. Scarafile, G. Tocci, M. Cameli, M. Tusa, G. Novo, G. Corrado, Q. Ciampi, R. Citro, E. Picano (Naples Italy, Perugia, Siena, Milan, Palermo, Como, Benevento, Salerno and Pisa, IT)
- Remodeling classification system considering left ventricular volume in patients with aortic valve regurgitation: association with adverse cardiovascular outcomes 1035
E. Giubertoni, A. Barbieri, F. Bursi, Y. Bartolacelli, M. Manicardi, G. Boriani (Modena, IT)
- Frequency and clinical determinants of valvular heart disease in healthy subjects with health promotion program 1036
M.S. Kim, S.J. Park, S.J. Cho, E.K. Kim, S.A. Chang, S.C. Lee, S.W. Park (Seoul, KR)
- Aortic valve of patients with filamin-A mutations: echocardiographic features and clinical outcomes 1037
R. Capoulade, C. Cuffeff, N. Piriou, C. Toquet, S. Blondin, G. Guimbretiere, T. Oomen, J. Aalberts, D. Bernstein, J. Bernstein, J.N. Trochu, H. Le Marec, J. Merot, J.J. Schott, T. Le Tourneau (Nantes, FR; Sneek and Groningen, NL; Stanford, US)
- Three-dimensional echocardiography: the mechanisms of tricuspid annular dilation 1038
V. Volpato, V. Mor-Avi, F. Veronesi, K. Addetia, L. Weinert, M. Yamat, G. Tamborini, M. Pepi, R.M. Lang (Chicago, US; Bologna and Milan, IT)

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS 2

Insights in hypertrophic cardiomyopathy**Chairperson(s): K. H. Haugaa (Oslo, NO); O. Huttin (Nancy, FR)**

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00. Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.

Left ventricular mechanical dispersion during exercise is independently correlated with exercise capacity in patients with hypertrophic cardiomyopathy 1039

M. Rosca, D. Ciuperca, L. Mandes, A. Calin, C.C. Beladan, R. Enache, D. Gherasim, R. Jurcut, C. Ginghina, B.A. Popescu (Bucharest, RO)

Myocardial scar in hypertrophic cardiomyopathy patients with prior septal reduction therapy identified by high frame ultrasound and naturally occurring shear waves 1040

M. Strachinaru, J.G. Bosch, A.F.L. Schinkel, M. Michels, N. De Jong, M.L. Geleijnse, H.J. Vos (Rotterdam, NL)

B-lines during stress echocardiography in hypertrophic cardiomyopathy 1041

K. Coviello, F. Re, Q. Ciampi, T. F Texeira, L. Cortigiani, A. Varga, M. Dekleva, J.L. De Castro E Silva Pretto, I. Simova, F. Lattanzi, M.A. R Torres, M. Haertel Miglioranza, I. Olivotto, C. Carpeggiani, E. Picano (Pisa, Rome, Benevento, Lucca and Florence, IT; Porto Alegre and Passo Fundo, BR; Szeged, HU; Belgrade, RS; Sofia, BG)

Systolic function reserve using two-dimensional strain imaging in hypertrophic cardiomyopathy: comparison with essential hypertension 1042

W. Hamed, H.M. Badran, M.F. Noamany (Shebin El-kom, EG)

Left ventricular mechanical dispersion is independently correlated with heart failure symptoms in hypertrophic cardiomyopathy 1043

M. Rosca, D. Ciuperca, L. Mandes, A. Calin, C.C. Beladan, R. Enache, S. Botezatu, R. Jurcut, C. Ginghina, B.A. Popescu (Bucharest, RO)

Stress echo in hypertrophic cardiomyopathy: the dark side of the force 1044

J. Peteiro, F. Re, Q. Ciampi, M. Tesic, A. Djordjevic-Dikic, B. Beleslin, L. Monserrat, X. Fernandez, M. Dekleva, C. Cotrim, A. Marchi, F. Mori, C. Carpeggiani, I. Olivotto, E. Picano (A Coruña, ES; Rome, Benevento, Florence and Pisa, IT; Belgrade, RS; Lisbon, PT)

Multi-layer strain as a useful technique to identify cardiac amyloidosis 1045

S. Sivapathan, A.C. Boyd, T. Deshmukh, F. Kwok, M. Altman, D. Richards, A.R. Denniss, G. Stewart, L. Thomas (Sydney, AU)

Can two-dimensional speckle tracking echocardiography be useful for myocardial fibrosis prediction in patients with hypertrophic cardiomyopathy? 1046

L. Danilowicz-Szymanowicz, K. Dorniak, A. Ziencuk-Krajka, K. Rozwadowska, J. Fijalkowska, R. Nowak, E. Wabich, D. Kaufmann, E. Szurowska, G. Raczak (Gdansk, PL)

10:10 - 10:55

HOW-TO SESSION

ROME

How to prepare EACVI echo certification exam**Chairperson(s): A. Stefanidis (Athens, GR)**

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

10:10 > Presenter: 1047
L. Gargani (Pisa, IT)

Morning Sessions

11:00 - 12:30 MAIN SESSION MILAN

Tricuspid regurgitation: update 2018

Chairperson(s): E. Agricola (Milano, IT); K. Papadopoulos (Athens, GR)

- | | | |
|---------|--|------|
| 11:00 › | Patho-anatomy and physiology: of horses and zebras.
<i>J. Mascherbauer (Vienna, AT)</i> | 1048 |
| 11:22 › | Quantification of tricuspid regurgitation: what we do Vs what we should do?
<i>L. Badano (Padova, IT)</i> | 1049 |
| 11:45 › | Right ventricular function in tricuspid regurgitation: a practical guide.
<i>M. Vannan (Atlanta, US)</i> | 1050 |
| 12:07 › | Planning trans-catheter tricuspid valve repair for tricuspid regurgitation: role of imaging.
<i>M. Vannan (Atlanta, US)</i> | 1051 |

11:00 - 12:30 SPECIAL SESSION ROME

Live session - Adding functional evaluation to stress echocardiography: the role of cardiopulmonary exercise test



Live session from the Policlinico San Donato, Milan

Chairperson(s): P. Lancellotti (Liege, BE); J. Magne (Limoges, FR)

Live case transmissions will be broadcast allowing the audience to closely follow the procedures and benefit from the experience of the experts.

- | | | |
|---------|---|------|
| 11:00 › | Exercise physiology and CPET: what should every cardiologist know about it?
<i>O. Havakuk (Tel Aviv, IF)</i> | 1052 |
| 11:15 › | The added value of CPET to exercise-echocardiography: clinical application and methodological issues.
<i>M. Guazzi (San Donato Milanese, IT)</i> | 1053 |
| 11:30 › | LIVE CASE from Cardiopulmonary Imaging Laboratory at IRCCS Policlinico San Donato, Milano.
<i>F. Bandera (San Donato Milanese, IT)</i> | 1054 |
| 12:05 › | Live case discussion. | |
| 12:25 › | Closing remarks.
<i>J. Magne (Limoges, FR)</i> | 1055 |

11:00 - 12:30 CLINICAL IMAGING PALERMO

Cardiac imaging and transcatheter aortic valve replacement - In collaboration with the ESC council of Valvular Heart Disease

Chairperson(s): A. Hagendorff (Leipzig, DE); L. A. Pierard (Liege, BE)

- | | | |
|---------|---|------|
| 11:00 › | Selection criteria for Transcatheter aortic valve replacement (TAVR): which news?
<i>S. Goldstein (Potomac, UM)</i> | 1056 |
| 11:22 › | Echo before the intervention - what should the echo report include?
<i>L.A. Pierard (Liege, BE)</i> | 1057 |
| 11:45 › | Cardiac Computed Tomography before the intervention - what should the report include?
<i>O. Gaemperli (Zurich, CH)</i> | 1058 |
| 12:07 › | Fusion imaging in the cath lab: really needed?
<i>M.F. Costantino (Lauria, IT)</i> | 1059 |

Morning Sessions

11:00 - 12:30 TEACHING COURSE TURIN

Advanced echo techniques II: basics, indications, protocols and interpretation**Chairperson(s): J.W. Ha (Seoul, KR); N. Ajmone Marsan (Leiden, NL)**

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- 11:00 › 2D/3D transesophageal echocardiography. 1060
M. Pepi (Milan, IT)
- 11:22 › Stress echocardiography in ischemic heart disease. 1061
E. Picano (Pisa, IT)
- 11:45 › Stress echocardiography in nonischemic heart disease. 1062
P.A. Pellikka (Rochester, US)
- 12:07 › Contrast echocardiography. 1063
J. R. Lindner (Portland, US)

11:00 - 12:30 SYMPOSIUM NAPLES

Phenotyping Heart Failure with preserved Ejection Fraction**Chairperson(s): J. Van Melle (Groningen, NL); O. A. Smiseth (Oslo, NO)**

- 11:00 › Assessment of left ventricular function. 1064
P. P. Sengupta (Morgantown, US)
- 11:22 › The role of the right ventricular. 1065
T. M. Gorter (Groningen, NL)
- 11:45 › Left atrium is the bad guy! 1066
E. Donal (Rennes, FR)
- 12:07 › Focus on exercise. 1067
W. Kosmala (Wroclaw, PL)

11:00 - 12:30 SYMPOSIUM GENOA

Phenotyping hypertrophy using imaging**Joint session with the Italian Society of Echocardiography and Cardiovascular Imaging (SIECvi)****Chairperson(s): C. Shekhar (Edina, US); F. Antonini-Canterin (Pordenone, IT)**

- 11:00 › Left ventricular hypertrophy and target organ damage in hypertension: the role of imaging. 1068
G. de Simone (Napoli, IT)
- 11:22 › Hypertrophic cardiomyopathy: speckle tracking and late Gadolinium enhancement. 1069
M. Desai (Cleveland, US)
- 11:45 › Cardiac amyloidosis: the apical sparing. 1070
T. H. Marwick (Melbourne, AU)
- 12:07 › Anderson fabry disease: the role of layer-specific strain. 1071
M. Galderisi (Naples, IT)

11:00 - 12:30 SYMPOSIUM VENICE

Longterm consequences of "simple" congenital heart lesions**Chairperson(s): W. Budts (Leuven, BE); A. Van Den Bosch (Rotterdam, NL)**

- 11:00 › Imaging of repaired and unrepaired atrial septal defect: natural and unnatural history. 1072
J. A. A. E. Cuypers (Rotterdam, NL)
- 11:22 › Imaging of repaired and unrepaired ventricular septal defect. 1073
A. Van Den Bosch (Rotterdam, NL)
- 11:45 › Imaging outcome markers for repaired and unrepaired isolated coarctation of the aorta. 1074
L. Smith (To Be Confirmed, GB)
- 12:07 › Imaging assessment before and during pregnancy in simple congenital heart lesions and impact on management. 1075
J.I. Stein (Graz, AT)

11:00 - 12:30

CLINICAL CASES

AGORA

Masses and sources of emboli: rare and dramatic cases I**Chairperson(s): D.P. Pellerin (London, GB); G. Karatasakis (Athens, GR)**

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience.

The main objective of the session is to learn from challenging clinical case scenarios.

- 11:00 › Panel of experts: 1076
T. Kukulski (Zabrze, PL); R. E. Dulgheru (Liege, BE)
- 11:00 › Thrombus in transit through patent foramen ovale with impending paradoxical embolism 1077
C. Minguito Carazo, S. Del Castillo Garcia, T. De Benito Gonzalez, C. Garrote Coloma, M. Rodriguez Santamarta, C. Palacios Echavarren, S. Prieto Gonzalez, E. Tundidor Sanz, L. Alvarez Roy, J. Borrego Rodriguez, J. Gualis Cardona, J.C. Echarte Morales, P. Menendez Suarez, G.M. Flores Vergara, F. Fernandez Vazquez (Leon, ES)
- 11:09 › Spontaneous remission of intramyocardial dissecting hematoma: serial assessment with multimodality imaging 1078
N. Yamaguchi, S. Okada, K. Koshino, T. Oshima, K. Hiroe, T. Ohta (Matsue, JP)
- 11:18 › Fatal dancing thrombus in the right atrium 1079
J. Ferreira, D. Faria, D. Roque, H. Ferreira, A. Freitas, M. Beringuilho, J. Augusto, C. Morais (Amadora, PT)
- 11:27 › Left atrial intramural hematoma following trans-catheter mitral valve repair with insertion of mitral clip 1080
H. Abdulrahim, A. Venkateshvaran, C.M. Sequeira, C.O. Da Silva, A. Lundberg, A. Manouras, M. Back, K. Szummer (Stockholm, SE)
- 11:36 › Right-side endocarditis in a subject with chronic hemodialysis 1081
E.S.H. Ervina Shirka, A.D. Albana Doko, E.M. Ermira Muco, G.C. Gent Caco, M.R.R. Merita Rroji (Tirana and Tirane, AL)
- 11:45 › Double giant thrombus almost completely solved after one week of anticoagulation therapy 1082
S. Suma, M. Bianconcini, M. Bollettino, S. Coli, C. Spaziani, A. Palumbo, F. Cozza, S. Garibaldi, N. Gaibazzi (Parma, IT)
- 11:54 › An unusual case of atrial fibrillation and dyspnea 1083
S. Bernardi, G. Mingrone, F. Vallenga, A. Astarita, M. Cesareo, M. Bollati, I. Maffei, C. Bertello, F. Veglio, A. Milan (Turin, IT)
- 12:03 › An echogenic mass in a patient with non-ST elevation myocardial infarction: imaging approach and management 1084
S. Suhail, L. Gobolos, J.A. Britain, K. Hasan, G. Bajwa, J. Grapsa, R. Suri, E.M. Tuzcu (Abu Dhabi, AE; London, GB)
- 12:12 › A rare case of myocardial neoplastic invasion. 1085
A. Lorente Ros, J.M. Vietez Florez, M. Abellas Sequeiros, A. Marco Del Castillo, M. Plaza Martin, C. Santoro, E. Ortega, A. Garcia, A. Gonzalez, J.L. Moya Mur, J.J. Jimenez Nacher, A. Esteban, R. Hinojar Baydes, J.L. Zamorano Gomez, C. Fernandez Golfín (Madrid, ES)
- 12:21 › An unusual cause of ischaemic stroke: mobile thrombus on a caseous calcification of the mitral annulus 1086
S. Suma, A. Molardi, A. Vezzani, T. Manca, I. Spaggiari, G. Benatti, F. Cozza, S. Coli (Parma, IT)

11:00 - 12:30

WORKSHOP

TOE ROOM

Focus on prosthetic valves**Workshop on Transoesophageal Echocardiography (TOE)**

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

- 11:00 › Presenters: 1087
L.E. Sade (Ankara, TR); C.C. Beladan (Bucharest, RO)

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 1

Clinical cases moderated - Multimodality imaging for aneurysms and dissection**Chairperson(s): A. Varga (Szeged, HU); J. Separovic Hanzevacki (Zagreb, HR)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 to 14:30.**Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.*

Patent false lumen complicated with thromboembolic spleen infarction after surgical correction of type A acute aortic dissection. A multimodality diagnostic work-up 1088

M.L. De Alcantara, A.S. Felix, A.P.R.V. Siciliano, J.S. Matos, C.E.V. Francisco, M.O.S. Goncalves, G.S. Duque, L.F.A. Cordeiro, R.M.G.C. Francisco, G.E. Lopez, V.S. Cravo, R.L. Marques, C.M. Correa (Rio de Janeiro, BR)

We dare you to find a bigger one. Multimodal approach of a giant ascending aorta aneurysm. 1089

J. A. Requena Ibanez, J. Abellan Huerta, A. Jurado Roman, I. Sanchez Perez, F. Lozano Ruiz- Poveda, M. T. Lopez Lluva, P. Perez Diaz, R. Frias Garcia, M. A. Perez Martinez (Ciudad Real, ES)

Giant right coronary artery aneurysm: echocardiographic finding in a patient with xanthelasma. 1090

S. Diaz Lancha, J.J. Portero Portaz, L. Exposito Calamardo, R. Ramos Martinez, M. Barambio Ruiz, J.C. Garcia Lopez, A. Tercero Martinez, M. Villar Garcia, J.C. Gallego Page (Albacete, ES)

Many disorders of one heart - accidentally discovered aortic dissection, bicuspid aortic valve and hypertrophic cardiomyopathy in young patient with hypertension 1091

M. Gawor, M. Spiewak, L. Mazurkiewicz, M. Marczak, I. Michalowska, J. Grzybowski (Warsaw, PL)

Giant right coronary artery aneurysm exceeding 8 cm in size 1092

E. A. Khalifa, M. R. Shoker, S. Elkaffas, A. N. Ghareep, W. Elnaggar, G. Sami (Giza and Cairo, EG; Detroit, US)

Aortic dissection in a patient with Marfan syndrome managed with multilayer flow modulator 1093

T. Melnic, V.I.C.T.O.R. Costache, C. Solomon, A. Costache, M. Sandu, C. Bucurenciu, A. Sandu (Sibiu, RO)

Post myocardial infarction pseudo-aneurysm: different presentation of the same problem 1094

A. Cecchetto, C. Ciccio, E. Dalla Chiara, A. Chiampan, C. Dugo, L. Albrigi, S. Bonapace, E. Adamo, G. Carbognin, E. Barbieri, L. Lanzoni (Negrar-Verona, IT)

12:45 - 13:45

MODERATED POSTERS

MODERATED ePOSTERS 2

Clinical cases moderated - Melting pot of clinical cases**Chairperson(s): B. P. Paelinck (Edegem, BE); S. Sengupta (Nagpur, IN)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 to 14:30.**Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.*

A rare cardiac invasion and a rare cause of death: case report 1095

M. Hassan Abdelnabi, A. Atteya, W. Etman, Y. Saleh, A. Almaghraby, S. Abd Elsamad (Alexandria, EG)

Epicardial lipomatous hypertrophy with ventricular septum separation and myocardial noncompaction: a new cardiomyopathy? 1097

A. Cecconi, T. Nogales-Romo, C. Jimenez-Mendez, S. Veloso, A. Rojas-Gonzalez, S. Hernandez Muniz, P. Caballero, M.J. Olivera, E. Gonzalez-Bartol, F. Rivero, L.J. Jimenez-Borreguero, F. Alfonso (Madrid, ES)

Unpredictable finding .. yet extremely rare cardiac tumour: case report of pericardial sarcoma 1098

M. Hassan Abdelnabi, R. Abayazeed, Y. Saleh, O. Elgebaly, O. Abdelkarim, A. Almaghraby (Alexandria, EG)

Speckle-tracking layer-specific analysis of longitudinal myocardial deformation in detection of immunotherapy-related cardiotoxicity 1099

Y.W. Liu, Y.J. Huang, W.C. Tsai (Tainan, TW)

Right ventricle, the forgotten ventricle? 1100

A. Marques, A. Briosa, A.C. Gomes, S. Alegria, A.R. Pereira, D. Sebaiti, I. Cruz, A.R. Almeida, S. Almeida, L. Brandao, I. Joao, H. Pereira (Almada, PT)

A rare case of systemic sclerosis with cardiac tamponade and calcific effusive constrictive pericarditis 1101

S. Akturk, C. Tulunay Kaya, T. Sayin, D.M. Gerede Uludag, C. Erol (Ankara, TR)

14:00 - 15:30 MAIN SESSION MILAN

Exercise echo in valvular heart disease

Chairperson(s): M. Garbi (London, GB); A. A. Khokhar (Leigh On Sea, GB)

- | | | |
|---------|---|------|
| 14:00 › | Asymptomatic aortic valve disease.
<i>P.A. Pellikka (Rochester, US)</i> | 1102 |
| 14:22 › | Asymptomatic mitral regurgitation.
<i>J. Magne (Limoges, FR)</i> | 1103 |
| 14:45 › | Asymptomatic mitral stenosis.
<i>E. Schwammenthal (Tel Hashomer, IL)</i> | 1104 |
| 15:07 › | Symptomatic non severe heart valve disease.
<i>M. Guazzi (San Donato Milanese, IT)</i> | 1105 |

14:00 - 15:30 SYMPOSIUM ROME

Advanced critical care Echocardiography

Chairperson(s): A. A. Pasquet (Brussels, BE); S. Price (London, GB)

- | | | |
|---------|--|------|
| 14:00 › | Echocardiography in extracorporeal Life Support (ECMO).
<i>C. Hassager (Copenhagen, DK)</i> | 1106 |
| 14:22 › | Echocardiography in Shock States.
<i>H. Soliman (London, GB)</i> | 1107 |
| 14:45 › | Lung ultrasound in critical care.
<i>L. Gargani (Pisa, IT)</i> | 1108 |
| 15:07 › | Echocardiography in left ventricular assist devices.
<i>N. Uriel (Chicago, US)</i> | 1109 |

14:00 - 15:30 CLINICAL IMAGING PALERMO

Heart failure with preserved ejection fraction: the weight of novel recommendations on echocardiographic assessment of diastolic function

Chairperson(s): S. Carerj (Messina, IT); F. Flachskampf (Uppsala, SE)

- | | | |
|---------|--|------|
| 14:00 › | The rationale of non invasive assessment of left ventricular filling pressure in the clinical practice.
<i>O. A. Smiseth (Oslo, NO)</i> | 1110 |
| 14:22 › | What is really new in the 2016 ASE/EACVI recommendations on diastolic function.
<i>S. Nagueh (Houston, US)</i> | 1111 |
| 14:45 › | Invasive validation of the novel recommendations on diastolic function.
<i>P. Lancellotti (Liege, BE)</i> | 1112 |
| 15:07 › | Prevalence of left ventricular diastolic function by novel recommendations: a problem resizing?
<i>Y.M. Hummel (Groningen, NL)</i> | 1113 |

14:00 - 15:30 TEACHING COURSE TURIN

Cardiac masses and sources of embolism

Chairperson(s): C. Ginghina (Bucharest, RO); Y. T. Yotov (Varna, BG)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- 14:00 › Intracardiac thrombi. 1114
P. Colonna (Bari, IT)
- 14:22 › Valvular and device-related sources of embolism. 1115
M. J. Andrade (Lisbon, PT)
- 14:45 › Cardiac tumors. 1116
A. Salustri (Doha, QA)
- 15:07 › Vascular sources of embolism. 1117
A. Evangelista Masip (Barcelona, ES)

14:00 - 15:30 SYMPOSIUM NAPLES

3D imaging in valvular heart disease

Chairperson(s): F. Fedele (Roma, IT); M. J. Monaghan (London, GB)

- 14:00 › Incremental value of 3D echocardiography in mitral valve disease. 1118
N. Ajmone Marsan (Leiden, NL)
- 14:22 › Incremental value of 3D echocardiography in tricuspid valve disease. 1119
D. Muraru (Padua, IT)
- 14:45 › 3D imaging techniques in aortic valve disease: when do they help? 1120
G. Pontone (Milan, IT)
- 15:07 › 3D printing for valvular heart disease: ready for prime time? 1121
I.V. Valverde Perez (Seville, ES)

14:00 - 15:30 SPECIAL SESSION GENOA

EuroEcho Lecture and Dr Jekyll & Mr Hyde session



Chairperson(s): T. Edvardsen (Oslo, NO); B. A. Popescu (Bucharest, RO)

- 14:00 › EuroEcho-Imaging Honorary Lecture: "Expanding Frontiers of Echocardiography". 1122
M. H. Picard (Boston, US)
- 14:25 › Question & discussion.
- 14:30 › Dr Jekyll & Mr Hyde. 1123
- 14:30 › Assessment of left ventricular function in aortic stenosis: Ejection fraction is all I need. 1124
T. H. Marwick (Melbourne, AU)
- 14:55 › Assessment of left ventricular function in aortic stenosis. Strain is all I need. 1125
T. H. Marwick (Melbourne, AU)
- 15:20 › Assessment of left ventricular function in aortic stenosis - Conclusion. 1126
P. P. Sengupta (Morgantown, US)

14:00 - 15:30

SYMPOSIUM

VENICE

Age-old questions revisited in 2018**Joint session with the American Society of Echocardiography (ASE)****Chairperson(s): T. Bharucha (Southampton, GB); C. Fleishman (Orlando, US)**

- 14:00 › Does imaging help us decide whether a BT shunt is worse than an right ventricle to pulmonary artery conduit? 1127
C. Fleishman (Orlando, US)
- 14:22 › Critical aortic stenosis: do we know how to predict successful biventricular outcome? 1128
T. Ojala (Helsinki, FI)
- 14:45 › How does antenatal diagnosis affect postnatal outcome in complex congenital heart disease? 1129
M. Bhat (To Be Confirmed, SE)
- 15:07 › The role of imaging in determining the right time to replace the pulmonary valve in tetralogy of fallot patients. 1130
M.K. Friedberg (Toronto, CA)

14:00 - 15:30

RAPID FIRE ABSTRACTS

AGORA

Echocardiography and valve intervention

Fast paced and interactive session with key messages of 10 abstracts.

Rapid Fire Abstracts session = Oral Communication

Chairperson(s): M. Izumo (Kawasaki, JP); J. Sabatino (Catanzaro, IT)

- 14:00 › Panel of experts: 1131
I. Burwash (To Be Confirmed, CA); E. Agricola (Milano, IT)
- 14:00 › Acute right ventricular function changes in severe aortic stenosis after TAVI. Are there any differences according to flow status? 1132
A. Pardo Sanz, C. Santoro, R. Hinojar, L. Salido, A. Gonzalez, A. Garcia, M. Abellas, J.J. Jimenez, V. Barletta, J.M. Monteagudo, A. Marco, S. Ruiz, R. Hernandez, J.L. Zamorano, C. Fernandez Golfín (Madrid, ES; Naples, IT)
- 14:09 › Predictive value of left ventricular myocardial deformation and work efficiency on LV remodeling in patients with classical low flow low gradient aortic stenosis undergoing TAVI 1133
A. Carbone, A. D'andrea, G. Tocci, E. Agricola, C. Cirillo, T. Formisano, J. Radmilovic, S. Sperlongano, R. Pezzella, C. Capogrosso, M. Cappelli, E. Bossone, M. Galderisi, P. Golino (Naples Italy, Perugia, Milan and Naples, IT)
- 14:18 › Contractile reserve in patients with high-gradient aortic stenosis scheduled for transcatheter aortic valve implantation 1134
M. Saevik, J.O. Beitnes, J. Eidet, B. Bendz, H. Skulstad, E. Fosse, L. Aaberge, P.S. Halvorsen (Oslo, NO)
- 14:27 › Associations of exercise-induced pulmonary hypertension with patient-prosthesis mismatch in patients with aortic stenosis after transcatheter aortic valve implantation. 1135
R. Kamijima, M. Izumo, T. Suzuki, Y. Sato, M. Watanabe, K. Okuyama, K. Chatani, Y. Tanabe, T. Harada, Y. Akashi (Kawasaki, JP)
- 14:36 › Left atrial strain in patients with aortic valve stenosis: implication after valve replacement. 1136
L. F. Cerrito, G. Benfari, F. Onorati, M. Noni, M. Cameli, G. Mandoli, M. Pernigo, G. Vinco, C. Zivelonghi, L. San Biagio, F.L. Ribichini, G. Mazzali, M. Zamboni, A. Rossi, G. Faggian (Verona and Siena, IT)
- 14:45 › Right ventricular free wall strain better predicts low cardiac output syndrome in patients left ventricular ejection fraction >35% undergoing open aortic valve replacement than left ventricular strain 1137
H. Rodriguez Zanella, K. Balderas Munoz, J.F. Fritche Salazar, J.D. Sierra Lara Martinez, O. Calvillo-Arguelles, E.L. Posada Martinez, A. Jordan Rios, X.A. Ortiz Leon, M.E. Ruiz Esparza Duenas, J. Gaspar Hernandez, M.A. Martinez Rios, J.A. Arias Godinez (Mexico City, MX)
- 14:54 › Advanced left ventricular remodeling relates to outcome in patients undergoing percutaneous mitral valve repair using mitraClip. 1138
P. Debonnaire, M. El Haddad, B. Drieghe, F. Timmermans, K. Dujardin, M. Deceuninck, P. Coussement, Y. Vandekerckhove (Bruges, Ghent and Roeselare, BE)

15:03 ›	Changes in augmentation index is associated with changes in left ventricular longitudinal systolic strain and diastolic function after aortic valve replacement <i>A. A. A. Tammam, A. Boguslavskyi, P. Chowienczyk, G.U. Haotian (London, GB)</i>	1139
15:12 ›	Impact of systemic arterial compliance on left ventricular function in patients with severe aortic stenosis and transcatheter aortic valve replacement <i>S.M. Park, C.W. Yu, M.N. Kim, D.H. Cho, H.D. Kook, S.J. Hong, D.S. Lim, W.J. Shim (Seoul, KR)</i>	1140
15:21 ›	Relationship between invasively measured right ventricular function and ventricular mechanics by 3D echocardiography in patients undergoing mitral valve surgery <i>B. K. Lakatos, M. Tokodi, Z. Toser, S. Szigeti, K.B. Koritsanszky, K. Racz, A.V. Soltesz, E. Kispal, B. Merkely, E. Nemeth, A. Kovacs (Budapest, HU; Dover, DE, US)</i>	1141

14:00 - 15:30 WORKSHOP TOE ROOM

Focus on heart valve disease

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

14:00 ›	Presenters: <i>S. Mihaila (Bucuresti, RO); A. Felix (Rio De Janeiro, BR)</i>	1142
---------	---	------

15:30 - 16:30 SPECIAL SESSION AGORA

Hightech corner session 1 - Machine learning: trendy subject or future practice?



This session is organised in collaboration with the ESC Working Group on e-Cardiology.

Chairperson(s): **A. Hernandez (Rennes, FR); S. E. Petersen (London, GB)**

To learn about the potential clinical value, the do's, and the don'ts of machine learning in the context of cardiac imaging.

15:30 ›	Introduction: how to look at your problem? <i>N. Duchateau (Villeurbanne, FR)</i>	1143
15:43 ›	Discussion/Q&A.	
15:45 ›	How much can we trust it? <i>L. Lovstakken (Trondheim, NO)</i>	1144
15:58 ›	Discussion/Q&A.	
16:00 ›	Do we abandon statistics? <i>A. Hernandez (Rennes, FR)</i>	1145
16:13 ›	Discussion/Q&A.	
16:15 ›	Physiologists' vs. cohort analysts' points-of-view. <i>A. G. Fraser (Cardiff, GB)</i>	1146
16:28 ›	Discussion/Q&A.	

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 1

The diversity of clinical use of stress echo**Chairperson(s): G. Pressman (Philadelphia, US); R. C. Vidal-Perez (Lugo, ES)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00.**Presentation and discussion moderated by the chairpersons take place between 15:30-16:30.*

Therapeutic efficacy of heparin plus exercise assessed by stress echo and global longitudinal strain in no-option patients: the CARHEXA sub-study. 1147

M. T. Petrovic, A. Djordjevic-Dikic, J. Stepanovic, V. Giga, N. Boskovic, V. Vukcevic, A. Mladenovic, Z. Markovic, V. Cvetic, O. Radmili, M. Tesic, D. Kalimanovska-Ostic, M.C. Ostojic, B. Beleslin, E. Picano (Belgrade, RS; Pisa, IT)

Prognostic implications of diastolic stress echocardiography in patients with HFpEF 1148

M. Deljanin Ilic, D. Simonovic, S. Ilic, I. Krstic, D. Petrovic, S. Stojanovic, L.J. Nikolic, B. Ilic (Niska Banja, RS)

Characterisation of dynamic left ventricular systolic and diastolic function in patients with obstructive sleep apnea syndrome and preserved left ventricular ejection fraction > 1149

S. Sperlongano, A. D'andrea, G. Tocci, M. Di Maio, G. Coppola, R. Pezzella, C. Nicoletta, G. Polistina, A. Canora, M. Bocchino, P. Golino, E. Bossone (Naples, IT)

RV strain rate at peak exercise as diagnostic tool in athletes with severe ventricular arrhythmias originating from the right ventricle. 1150

M. Claeys, A. La Gerche, J.-U. Voigt, P. Claus, H. Heidbuchel, R. Willems, G. Claessen (Leuven and Antwerp, BE; Melbourne, AU)

Optimization of 4D strain-stress-echocardiography adenosine triphosphate infusion scenario 1152

N. Nelassov, M. Morgunov, N. Doltmurzieva, R. Sidorov, E. Arzumanyan, O. Eroshenko (Rostov-on-Don, RU)

From systolic pulmonary arterial pressure to pulmonary vascular reserve: a simplified method for exercise stress echocardiography 1153

K. Wierzbowska-Drabik, F. Ferrara, M. D'alto, Q. Ciampi, J.D. Kasprzak, C. Carpeggiani, E. Bossone, E. Picano (Lodz, PL; Salerno, Naples, Benevento and Pisa, IT)

Intraventricular fluid dynamics evaluated during DSE: new horizon for CAD patients 1154

D. Filomena, S. Cimino, V. Maestrini, D. Cantisani, V. Petronilli, L. Velato, C. Iacoboni, L. Agati (Rome, IT)

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 2

Applications of cardiac magnetic resonance in modern cardiology**Chairperson(s): E.R. Valsangiacomo Buechel (Zurich, CH); J. F. Rodriguez Palomares (Barcelona, ES)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00.**Presentation and discussion moderated by the chairpersons take place between 15:30-16:30.*

Failing atrial mechanics and major adverse cardiac events in female patients following acute ST elevation myocardial infarction 1155

S.J. Backhaus, J.T. Kowallick, T. Stiermaier, T. Lange, A. Koschalka, J.L. Navarra, J. Lotz, S. Kutty, B. Bigalke, M. Gutberlet, G. Hasenfus, H. Thiele, I. Eitel, A. Schuster (Göttingen, Lübeck, Berlin and Leipzig, DE; Omaha, US; Sydney, AU)

Clinical significance of early natural mild hypothermia in ST-elevation myocardial infarction: cardiac magnetic resonance imaging study 1156

K.H. Lim, Y.B. Song, J.Y. Hahn (Seoul, KR)

Hemodynamic implications of raphe in bicuspid aortic valve patients 1157

A. Guala, L. Dux-Santoy, J.F. Rodriguez-Palomares, G. Teixido-Tura, A. Ruiz-Munoz, C. Granato, N. Villalva, F. Valente, A. Sao-Aviles, L. Galian, L. Gutierrez, I. Dentamaro, T. Gonzalez-Alujas, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)

Correlation between endurance capacity and morphological changes in young competitive athletes	1158
<i>Z. Dohy, V. Juhasz, I. Csecs, C.S. Czimbalmos, A. Toth, O. Kiss, L. Szabo, F.I. Suhai, B. Merkely, H. Vago (Budapest, HU)</i>	
Echocardiographic parameters can predict the presence of late gadolinium enhancement by cMR in Fabry disease	1160
<i>S. Militaru, R. Adam, M. Alexandrescu, M.S. Amzulescu, E. Rusu, C. Ghinghina, B.A. Popescu, R.O. Jurcut (Bucharest, RO; Brussels, BE)</i>	
Prevalence and imaging features of clinically and by cardiac magnetic resonance confirmed acute myocarditis: a single centre, 4-year retrospective study in Lithuania	1161
<i>A. Rimkus, S. Glaveckaite, P. Serpytis, N. Valeviciene (Vilnius, LT)</i>	
Left atrial blood flow velocities in hypertrophic cardiomyopathy: association with left ventricular diastolic function and interstitial fibrosis.	1162
<i>C. Contaldi, L.C. Choudhury, B.L. Allen, D.C. Lee, J. Carr, A.J. Barker, M. Markl, R.O. Bonow (Chicago, US)</i>	

15:40 - 16:25 HOW-TO SESSION ROME

How to analyze a cardiac Computed Tomography exam - Tips for beginners

Chairperson(s): O. Gaemperli (Zurich, CH)

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

15:40 › Presenter:	1163
<i>M. Motwani (Manchester, GB)</i>	

16:30 - 18:00 MAIN SESSION MILAN

Transcatheter treatment and mitral regurgitation.

Chairperson(s): R. S. Von Bardeleben (Mainz, DE); J.O. Beitnes (Oslo, NO)

16:30 › Assessing mitral regurgitation: what to look for and how?	1164
<i>N. Watanabe (Miyazaki, JP)</i>	
16:52 › Selection of patients with mitral regurgitation for transcatheter.	1165
<i>G. La Canna (Rodengo Saiano, IT)</i>	
17:15 › How to guide transcatheter mitral therapies for mitral regurgitation.	1166
<i>M. J. Swaans (Hedel, NL)</i>	
17:37 › How to follow-up patients treated with transcatheter therapies for mitral regurgitation: what to check?	1167
<i>V. Delgado (Leiden, NL)</i>	

16:30 - 18:00 SYMPOSIUM ROME

Multimodality myocardial perfusion imaging - insights into the future

Chairperson(s): N. Gaibazzi (Parma, IT); S. E. Petersen (London, GB)

- 16:30 › Myocardial perfusion imaging by contrast echo: update. 1168
S. Kaul (Portland, US)
- 16:52 › Myocardial perfusion imaging by cardiovascular magnetic resonance. 1169
S. Plein (Leeds, GB)
- 17:15 › Myocardial perfusion using cardiac Cardiac Computed Tomography. 1170
F. Pugliese (London, GB)
- 17:37 › Myocardial perfusion using Single-photon emission computed tomography (SPECT) and Cardiac positron emission tomography (PET). 1171
T.J.F. Ten Cate (Nijmegen, NL)

16:30 - 18:00 SYMPOSIUM PALERMO

Cardio-oncology: the role of basic and advanced imaging

Joint session with the Cardiac Society of Australia & New Zealand (CSANZ) and EACVI

Chairperson(s): S.W. Wahi (Brisbane, AU); T. Edvardsen (Oslo, NO)

- 16:30 › Chemotherapy related cardiotoxicity: etiology and mechanisms. 1172
L. Thomas (Sydney, AU)
- 16:52 › Evaluation of cardiotoxicity: is LVEF sufficient? 1173
J. C. Plana (Houston, US)
- 17:15 › Radiation related cardiotoxicity. 1174
J. Bergler-Klein (Vienna, AT)
- 17:37 › Treatment of cardiotoxicity: does it help? 1175
T. H. Marwick (Melbourne, AU)

16:30 - 18:00 TEACHING COURSE TURIN

Non-invasive hemodynamic assessment by echocardiography

Joint session with ECOSIAC

Chairperson(s): S. Price (London, GB); M. S. Casella (Ramos Mejia, AR)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- 16:30 › Volume status and preload responsiveness. 1176
H. Soliman (London, GB)
- 16:52 › Left ventricular hemodynamics in heart failure. 1177
S. Spina (Ramos Mejia, AR)
- 17:15 › Pulmonary pressures and vascular resistance in pulmonary hypertension. 1178
S. J. Baratta (Buenos Aires, AR)
- 17:37 › Cardiac tamponade and constrictive pericarditis. 1179
A. Klein (Cleveland, US)

16:30 - 18:00 SYMPOSIUM NAPLES

Hot topics in valvular heart disease

Chairperson(s): M. Cameli (Siena, IT); D. Muraru (Padua, IT)

- 16:30 › The role of the left atrium and mitral valve annulus in primary mitral regurgitation. 1180
S. Mihaila (Bucuresti, RO)
- 16:48 › Functional mitral regurgitation in patients with aortic stenosis. 1181
G. Benfari (Verona, IT)
- 17:06 › VHD and atrial fibrillation: where is the link? 1182
N. Kagiya (St. Louis, US)
- 17:24 › The added value of cardiovascular magnetic resonance in evaluation of the valve disease. 1183
F. Le Ven (Brest, FR)
- 17:42 › Take home messages. 1184
L. Badano (Padova, IT)

16:30 - 18:00 SYMPOSIUM GENOA

Exercise intolerance: a steep mountain to climb

Chairperson(s): L. Herbots (Hasselt, BE); M. Metra (Brescia, IT)

- 16:30 › Systolic or diastolic failure? 1185
J. K. Oh (Rochester, US)
- 16:52 › Non-invasive measurement of LV filling pressures. 1186
Y.M. Hummel (Groningen, NL)
- 17:15 › How to assess myocardial work. 1187
O. A. Smiseth (Oslo, NO)
- 17:37 › Relaxation vs Compliance: insights from invasive and non-invasive data. 1188
J. Verwerft (Heusden-Zolder, BE)

16:30 - 18:00 SYMPOSIUM VENICE

Technology and imaging in congenital heart disease (CHD)

Chairperson(s): O. Miller (London, GB); M.K. Friedberg (Toronto, CA)

- 16:30 › Pacing and dysynchrony in CHD: the role of imaging. 1189
J. Marek (London, GB)
- 16:52 › Optimizing CRT with imaging in CHD. 1190
R. Gebauer (Leipzig, DE)
- 17:15 › Imaging patients with CHD on mechanical support. 1191
M. Puchalski (Salt Lake City, US)
- 17:37 › Which CHD patients should have an implantable cardioverter-defibrillator? - The role of imaging in decision-making. 1192
B. Sarubbi (Napoli, IT)

16:30 - 18:00

RAPID FIRE ABSTRACTS

AGORA

New insights into pathophysiology and improved diagnosis and prognosis

Fast paced and interactive session with key messages of 10 abstracts.

Rapid Fire Abstracts session = Oral Communication

Chairperson(s): R. Nijveldt (Amsterdam, NL); J. Schulz-Menger (Berlin, DE)

- | | | |
|---------|---|------|
| 16:30 › | Panel of experts:
A. M. Maceira Gonzalez (Valencia, ES); J.P. Carpenter (Burley, GB) | 1193 |
| 16:30 › | T1-rho mapping for detection of diffuse myocardial fibrosis
C. Celeng, M. Froeling, T. Leiner (Utrecht, NL) | 1194 |
| 16:39 › | Changes in left ventricular volume and ejection fraction predict clinical evolution in patients with ST-elevation myocardial infarction
F. Valente, J.F. Rodriguez Palomares, J. Gavara, I. Ferreira, J.V. Monmeneu, J. Rodriguez Garcia, M.P. Lopez-Lereu, M. Mutuberria, C. Bonnad, B. Garcia Del Blanco, J. Barrabes, E. De Dios, A. Evangelista, V. Bodi, D. Garcia Dorado (Barcelona and Valencia, ES) | 1195 |
| 16:48 › | Manual long axis strain provides optimized cardiovascular event prediction following myocardial infarction
A. Schuster, S.J. Backhaus, J.T. Kowallick, T. Stiermaier, A. Stulle, A. Koschalka, J. Lotz, S. Kutty, B. Bigalke, M. Gutberlet, G. Hasenfus, H. Thiele, I. Eitel (Sydney, AU; Göttingen, Lübeck, Berlin and Leipzig, DE; Omaha, US) | 1196 |
| 16:57 › | Clinical and imaging determinants of mortality in tricuspid regurgitation surgery
J. Lozano Torres, J.F. Rodriguez Palomares, I. Dentamaro, L. Gutierrez Garcia, F. Valente, G. Teixido, L. Galian, R. Fernandez-Galera, A. Evangelista, D. Garcia-Dorado, P. Tornos, M.T. Gonzalez-Alujas (Barcelona, ES) | 1197 |
| 17:06 › | Myocardial strain changes as assessed by feature tracking CMR in patients with acute myocarditis and preserved ejection fraction. Impact on prognosis
A.M.G. Almeida, M.N. Menezes, G. Lima-Silva, T. Guimaraes, A.R. Francisco, R. Placido, C. David, F.J. Pinto (Lisbon, PT) | 1198 |
| 17:15 › | Quantitative left atrial function allows optimized prediction of cardiovascular events following myocardial infarction: a cardiovascular magnetic resonance imaging study
A. Schuster, S.J. Backhaus, T. Stiermaier, J.L. Navarra, J. Uhlig, K.P. Rommel, A. Koschalka, J.T. Kowallick, J. Lotz, B. Bigalke, S. Kutty, G. Hasenfus, H. Thiele, I. Eitel (Sydney, AU; Göttingen, Lübeck, Leipzig and Berlin, DE; Omaha, US) | 1199 |
| 17:24 › | Extracellular volume by cardiac magnetic resonance predicts outcomes in patients with severe aortic stenosis and normal left ventricular function who underwent aortic valve replacement
S.-J. Park, S.Y. Lee, S.M. Kim, E.K. Kim, S.A. Chang, S.C. Lee, S.W. Park (Seoul, KR) | 1200 |
| 17:33 › | CMR normative reference values of biventricular size and function in athlete's heart
F. D'ascenzi, F. Anselmi, P. Piu, C. Fiorentini Naccari, M. Cameli, M. Focardi, M. Bonifazi, S. Mondillo (Siena, IT) | 1201 |
| 17:42 › | Longitudinal but not circumferential proximal aorta strain predicts aortic root dilation rate and major cardiovascular events in Marfan syndrome
A. Guala, J.F. Rodriguez-Palomares, A. Ruiz-Munoz, L. Dux-Santoy, N. Villalva, C. Granato, L. Galian, M. Gandara, I. Dentamaro, L. Gutierrez, V. Sanchez, A. Forteza, D. Garcia-Dorado, A. Evangelista, G. Teixido-Tura (Barcelona and Madrid, ES) | 1202 |
| 17:51 › | Impaired multi-directional strain in hypertensive heart disease
V.Z.K. Lim, T.T. Le, J.A. Bryant, B. Su, S.A. Cook, C.W.L. Chin (Singapore, SG) | 1203 |

16:30 - 18:00 WORKSHOP TOE ROOM

Focus on Atrial Septal Defect closure (ASD)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

16:30 › Presenters: 1204
J. Simpson (London, GB); K. Papadopoulos (Athens, GR)

18:00 - 19:00 SPECIAL SESSION MILAN

Echo@Jeopardy



Chairperson(s): B. Cosyns (Brussels, BE); P. Lancellotti (Liege, BE)

Cardiovascular imaging quiz where 3 expert teams will compete.

18:00 › Master slide Echo@Jeopardy. 1205

18:10 › Echo at Jeopardy - Presenters. 1206
N. Cardim (Lisbon, PT); M. Galderisi (Naples, IT); M. Cameli (Siena, IT)

18:20 › EACVI Team. 1207
J. D. Kasprzak (Lodz, PL); I. Stankovic (Belgrade, RS); B. L. M. Gerber (Woluwe-St. Lambert, BE); M. Sitges (Barcelona, ES)

18:30 › Local host Team. 1208
M. Pepi (Milan, IT); A. D'Andrea (Naples, IT); G. Pontone (Milan, IT); L. Gargani (Pisa, IT)

18:40 › The rest of the world Team. 1209
V. Rigolin (Chicago, US); A. La Gerche (Melbourne, AU); K. Kusunose (Tokushima, JP); S. Kutty (Baltimore, US)

18:45 › Case coordinators. 1210
J. D. Kasprzak (Lodz, PL); M. Pepi (Milan, IT); V. Rigolin (Chicago, US)

• Friday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee



INTERNATIONAL CONFERENCE ON

NUCLEAR CARDIOLOGY AND CARDIAC CT



REGISTER
BY 26 FEBRUARY

LISBON | **12-14**
PORTUGAL | **May**
2019

www.icnc2019.org



EACVI
European Association of
Cardiovascular Imaging
European Society of Cardiology



08:30 - 18:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Clinical Case Poster session 3

All posters are on display from 08:30 to 18:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time Heart Imagers of Tomorrow Clinical Case Poster hosts - 12:45 - 13:45.

*M. Henein (Umea, SE); M. Galderisi (Naples, IT); O. Ozden Tok (Istanbul, TR); R. Liga (Pisa, IT);
F. Lo Iudice (Naples, IT); G. Athanassopoulos (Pireas, GR)*

Assessment of left ventricular function by two-dimensional speckle tracking analysis in youth with masked hypertension

X.X. Luo, Y.Q. Sun, Q.R. Ge, J. Su, H.K. So, M.C. Yam, F. Fang, Y.S. Zhu (Shenzhen and Beijing, CN; Hong Kong, HK)

Newly breathless patient with ongoing chest pain

V.K. Le, I. Amhalhal, M. Sadreddini (Thunder Bay, CA)

Flow reversal in pulmonary vein caused by anomalous pulmonary vein opening to both left atrium and superior vena cava

*M. Toki, N. Kagiya, A. Hayashida, T. Kawamoto, T. Sakaguchi, S. Aritaka,
K. Yoshida (Okayama, JP; St. Louis, US)*

A very rare case of endocarditis

D. H. Neves Sebaiti, P.F. Paula Fazendas, D.R. Helder Pereira, T.É.C. Ana Francisco (Almada, PT)

Deformation Imaging for diagnosis of myocarditis - Comparison with MR findings: a case report

S. Stoebe, B. Tayal, K. Solt, M. Gutberlet, D. Lavall, U. Laufs, A. Hagendorff (Leipzig, DE; Aalborg, DK)

Added value of three-dimensional echocardiography in the evaluation of grown-up congenital heart disease patients after congenital cardiac surgery

M. Previtero, D. Muraru, S. Iliceto, L.P. Badano (Padua, IT)

From bad to worst case scenario: left ventricular pseudoaneurysm after surgery for prosthetic mitral valve obstruction

D. Ciuperca, D.C. Calin, A. Calin, M. Rosca, C. Ginhina, B.A. Popescu (Bucharest, RO)

Risk of misdiagnosis in children with left ventricular non-compaction - potential benefit of magnetic resonance imaging

T. Jurko, A. Jurko, M. Mistinova, A. Jurko, M. Minarik, M. Mestanik, I. Tonhajzerova (Martin and Bratislava, SK)

Severe tricuspid regurgitation induced by permanent pacing lead- imaging approach

R. Sosdean, F. Goanta, L. Maries, R.L. Ianos, I.R. Macarie, C. Mornos, A. Ionac, S. Pescariu (Timisoara, RO)

An accidental finding that changed everything

*S.L.J. Sara Lozano Jimenez, J.B.H. Jorge Baena Herrera, E.G.I. Eusebio Garcia-Izquierdo,
J.F.O.D. Juan Francisco Oteo Dominguez, S.M.S. Susana Mingo Santos, J.M.E.V. Juan Manuel Escudier Villa,
L.A.P. Luis Alonso Pulpon (Majadahonda, ES)*

A case of atypical clinical presentation of acute aortic syndrome

U. Kocabas, H. Altay, I. Isiklar, B. Saritas, F. Ozkayayci, S. Pehlivanoglu (Istanbul, TR)

Management Challenges in a Case of Pulmonary Hypertension Associated with Adult Congenital Heart Disease and Hepatitis C

R. Badea, R. Enache, P. Platon, L. Predescu, I.M. Coman, C. Ginhina, B.A. Popescu (Bucharest, RO)

Double outlet left ventricle (DOLV): case report

*M. Abdallah, K.A.R.I.M. Ben Brahim, H.O.U.D.A. Ghardalou, H.O.U.S.E.M. Thabet, O.U.E.I.S. Laabidi,
A.F.E.F. Lagren, M.E.H.D.I. Slim, R.Y.M. Gribaa, E.L.Y.E.S. Neffati, E.S.S.I.A. Boughzela (Sousse, TN)*

An incidental murmur in a pregnant lady - a breaking hourglass, awaiting to be shattered

W.J. Tiau, K. Y. Cynthia Tan (Kuala Lumpur and Temerloh, MY)

Aortic pseudoaneurysm with aorto-cavitary fistula, two similar cases, multimodality approach.

*E. Iglesias Colino, A. Riesgo Garcia, R. Eiros Bachiller, M. Palacio Solis, A. De La Fuente Villena,
A. Diaz Dorronsoro, J. Barba Cosials, E. Sufrate Sorzano, M. Gomez Llorente, G. Bastarrika Aleman,
O. Shangutov, L. Alonso Perez, J.J. Gavira Gomez, P.M. Azcarate Aguero (Pamplona and Logroño, ES)*

08:30 - 18:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Poster session 3

All posters are on display from 08:30 to 18:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time Heart Imagers of Tomorrow Poster hosts - 12:45 - 13:45.

*H. Skulstad (Oslo, NO); M. Cameli (Siena, IT); B. L. M. Gerber (Woluwe-St. Lambert, BE);
V. Reskovic Luksic (Zagreb, HR); S.V. Tsonev (Sofia, BG); T. Lapinskas (Kaunas, LT)*

P1227

Left ventricular mass should be calculated by 2D and not 1D echocardiographic methods, an echocardiographic study of the effect of left ventricular volume change after haemodialysis

P1228

C. Burup Kristensen, R. Mogelvang (Copenhagen, DK)

Tissue doppler imaging is sensitive for early detection of cardiomyopathy in patients with Duchenne muscular dystrophy

P1229

H. Bourne, Z.E. Davidson, M. Moreno-Betancur, M. Cheung (Melbourne, AU)

Right ventricular dysfunction in patients with heart failure with reduced, mid-range and preserved ejection fraction: an echocardiographic study

P1230

C. Gobbi, M. Schiavone, E. Gherbesi, M. Squillace, G. Malanchini, F. Sozzi, L. Diehl, P. Perolo, A. Bertoletti, F. Lombardi, M. Vicenzi (Milan, IT)

Association between echocardiography, quality of life and severity of symptoms in patients with nonvalvular atrial fibrillation

P1231

K. Kupczynska, D. Miskowicz, P. Wejner-Mik, B. Michalski, E. Szymczyk, K. Wdowiak-Okrojek, P. Lipiec, J.D. Kasprzak (Lodz, PL)

Epicardial adipose tissue volume and cardiac remodelling: A systematic review and meta-analysis

P1232

D. Azevedo, J. Mancio, I. Falcao-Pires, A. Leite-Moreira, N. Lunet, R. Fontes-Carvalho, N. Bettencourt (Porto and Vila Nova de Gaia, PT)

Determinants of layer-specific longitudinal strain in overweight and obese patients

P1234

A. Vaccaro, M. Scalamogna, L. Esposito, M. Esposito, R. Sorrentino, R. Esposito, F. Pasanisi, B. Trimarco, M. Galderisi (Naples, IT)

Phasic right atrial function in systemic sclerosis patients without pulmonary hypertension. A 2D speckle-tracking echocardiographic study.

P1235

D. Frumkin, S. Spethmann, S. Schattke, H. Dreger, K. Stangl, F. Knebel, A. Brand (Berlin, DE)

Can circumferential strain predict worse clinical outcomes in patients after acute coronary syndromes?

P1236

C.X. Resende, P.M. Araujo, S. Torres, C. Sousa, G. Ferreira, M.J. Maciel, F. Macedo (Porto, PT)

Longitudinal and circumferential left ventricular myocardial performance in normal pregnancy: relation to maternal body weight and blood pressure

P1237

N. Gavrilovic, J. Dudic, O. Petrovic, M. Tesic, P. Cabunac, N. Karadzov-Orlic, B. Damjanovic-Pazin, M. Petrovic, S. Stanimirovic, D. Trifunovic (Belgrade, RS)

Evaluation of the impact of percutaneous coronary intervention of chronic total occlusion on regional myocardial function using strain echocardiography

P1238

M. M. Azmy, A.E. Kholeif, M. Loutfi, E. El Sharkawy (Alexandria, EG)

Is there a link between collagen metabolites, galectin and cardiac mechanics in patients with the heart failure with the preserved and reduced ejection fraction?

P1239

B.W. Michalski, K. Kupczynska, E. Szymczyk, D. Miskowicz, P. Lipiec, J.D. Kasprzak (Lodz, PL)

Anterior mitral valve leaflet elongation predicts left ventricular outflow tract obstruction in patients with hypertrophic cardiomyopathy

P1240

S. Torres, P.M. Araujo, C. Sousa, C.X. Resende, M. Vasconcelos, M.J. Maciel, F. Macedo (Porto, PT)

The association between alpha-1 antitrypsin serum levels, genotype and atrial septal aneurysm

P1241

F. N. Turhan, D. Karabulut, F. Akturk, H. Tureli, H. Cebe, F. Katkat, E. Okuyan (Istanbul, TR)

How TAPSE predicts outcome in patient with systolic left heart failure?	P1242
<i>M. Kurdziel, L. Pyka, J. Nowak, A. Krajewski, J. Niedziela, L. Siedlecki, W. Skowron, M. Danicic, M. Gasior (Zabrze, PL)</i>	
Aortic pulse wave velocity assessment - comparison between aplanatic tonometry and ultrasonography in patients with arterial hypertension and controls.	P1243
<i>B. Nowak, R. Nowakowski, E. Trzos, P. Lipiec, J.D. Kasprzak, K. Wierzbowska-Drabik (Lodz, PL)</i>	
Ventricular-arterial coupling and endocrine response under competitive pressure in junior orienteers	P1244
<i>V. Bucciarelli, F. Bianco, P. Izzicupo, M. A. D'amico, B. Ghinassi, C. Robazza, A. Di Baldassarre, S. Gallina (Chieti, IT)</i>	
Left atrial diameter as a simple parameter predicting the effectiveness of antazoline-based pharmacological approach to cardioversion of atrial fibrillation	P1245
<i>D. Miskowiec, E. Cwiek-Rebowska, M. Simiera, P. Lipiec, J.D. Kasprzak (Lodz, PL)</i>	
Total coronary artery plaque volume is associated with myocardial ischemia in non-obstructive coronary artery disease (the MicroCAD study)	P1246
<i>I. Eskerud, E. Gerdt, T.H. Larsen, M.T. Lonnebakken (Bergen, NO)</i>	

08:30 - 12:30

POSTER SESSION

POSTER AREA

Clinical case poster session 4

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Masses and Sources of Emboli

A case of primary cardiac angiosarcoma accompanied with severe aortic stenosis <i>K. Hirose, S. Miyazaki, R. Morimoto, M. Maruyama, H. Nishiyama, A. Takagi, A. Amano, H. Daida (Tokyo and Saitama, JP)</i>	P1247
To remove or not to remove? The role of echocardiography and cardiac magnetic resonance in decision making on cardiac surgery in a patient with cardiac tumour <i>G. Joseph, M.W. Zelechowski, J. Gronlund, T. Zaremba (Aalborg and Hjorring, DK)</i>	P1248
Beyond an arterial ischemia <i>B. Alcon Duran, M. Alcocer Ayuga, J. Gorris Magana, B. Izquierdo Coronel, V. Gonzalez Pastor, J. Saavedra Falero, J.J. Alonso Martin (Madrid, ES)</i>	P1250
The great masquerader: a left atrial myxoma presenting as atypical chest pain and dyspnea <i>T. Imran, A. Bakht, R. Rasalingam (Boston, US)</i>	P1251
Flash pulmonary edema: there is something within the heart <i>A. Neto, D. Seabra, L. Marques, I. Oliveira, R. Pontes Dos Santos, A. Andrade, P. Pinto (Penafiel, PT)</i>	P1252
Left atrium spontaneous echo contrast on transesophageal echocardiogram <i>F.M. Moniz Mendonca, J.A.S. Sousa, J.M. Monteiro, M.N. Neto, S.G. Gomes, G.C. Caires, D.F. Freitas (Funchal, PT)</i>	P1253
A 54 year old man with shortness of breath and a permanent pacemaker <i>I.K. Kapitsinis, L.Z. Zitiridou, A.P. Papadopoulos, P.X. Xova, D.F. Farmakis, A.K. Karakanas, I.S. Styliadis (Thessaloniki, GR)</i>	P1254
Mitral annular mass - when echocardiographic features do CMACcurate. <i>T. Faria Da Mota, R. Fernandes, J. Sousa Bispo, P. Azevedo, J.P. Guedes, D. Silva, J. Amado, M. Vieira, H. Mendonca Cafe, I. De Jesus (Faro, PT)</i>	P1256
Eusthacian valve endocarditis - a rare case of pyrexia <i>W. Camilleri, P. Dingli, R. Sciberras (Msida, MT)</i>	P1257
Can a single trans-thoracic echocardiogram image, on cath lab table, be a game changer and life saving? <i>M. Waleed, S. Wheatcroft (Leeds, GB)</i>	P1258
A giant floating thrombus in left atrium: a case report <i>M. Suzuki, S. Hattori, N. Toyokawa, S. Sakai, H. Yano, A. Iwai, K. Nogi, H. Fujimoto, H. Iwama, T. Nakai, N. Doi (Nara, JP)</i>	P1259
Echocardiogram solves an ST elevation myocardial infarction riddle rendered difficult to diagnose by coronary angiogram <i>G. Hefny, J. Al Ali (Dubai, AE)</i>	P1260
A left atrial mass causing embolic phenomena <i>M.K. Lashein, S. Ahmad (Preston, GB)</i>	P1261
Cerebral air embolism following pulmonary embolism due to catheter removal <i>J.W. Son, J.W. Lee, S.W. Park, J.Y. Kim, B.S. Yoo (Wonju, KR)</i>	P1262
Right atrial thrombus - One clot, multiple plots <i>C. Delcea, A. Dan, I. Dahan, G.A. Dan (Bucharest, RO)</i>	P1263
Imminent pulmonary embolisation (clot in transit) <i>E. Fabris (London, GB)</i>	P1264

The invaluable observation of a hazardous patient with a floating and gecko-like-shaped right atrial thrombus diagnosed by echocardiography and CT imaging	P1265
<i>Y. Takeuchi, H. Sakamoto, T. Shimada (Shizuoka, JP)</i>	
Mobile right heart thrombi- the role of echocardiography in therapeutic decision	P1266
<i>A. Dadarlat, C. Riebel (Cluj Napoca and Cluj-Napoca, RO)</i>	
Giant right atrial mass	P1267
<i>D. Candeias Faria, J. Ferreira, D. Roque, J. Augusto, H. Ferreira, A. Freitas, C. Morais (Amadora, PT)</i>	
Mitral stenosis due to a Left atrial myxoma	P1268
<i>A. Amraoui, M. Benats, A. Wauters (Brussels, BE)</i>	
Transient ischemic attack and syncope due to large left atrial myxoma	P1269
<i>C.I. Riebel, S. Mot, A. Serban (Cluj Napoca, RO)</i>	
Huge left atrial myxoma causing symptomatic mitral valve stenosis	P1270
<i>T. Constantinides, A. Christodoulou, K. Yiangou, P. Avraamides (Nicosia, CY)</i>	
Echocardiography, Other	
Post-irradiation constrictive pericarditis or something else?	P1271
<i>M. Hajdu, A. Porpacz, E. Kis, T. Tornoczki, A. Komocsi, T. Simor, S. Szabados, A. Cziraki, R. Faludi (Pecs and Szekszard, HU)</i>	
Atypical presentation of cardiac amyloidosis mimicking tricuspid valve vegetation	P1272
<i>C. Ruisanchez Villar, S. Catoya Villa, P. Lerena Saenz, D. Serrano Lozano, S. Gonzalez Lizarbe, N. Royuela Martinez, J.M. Cuesta Cosgaya, M. Llano Cardenal, F. Gonzalez Vilchez, A. Sarralde Aguayo, M. Fernandez Valls, J.A. Vazquez De Prada Tiffe, J. Ruano Calvo (Santander, ES)</i>	
A rare case of double outlet left atrium, left hand ventricular topology, atrioventricular septal defect and double outlet right ventricle	P1273
<i>A. Deri, M. G. Delle Donne, C. Van Doorn, J.D.R. Thomson (Leeds, GB)</i>	
Unrecognised critical aortic coarctation caused hypertension and noncompaction in an adult patient	P1274
<i>P. Kozlov, G. Berkovich, E. Kitaeva, M. Gordeev, V. Privorotsky, V. Kozulin (St Petersburg, RU)</i>	
Repetitive out of hospital cardiac arrests following pregnancy, an unfortunate presentation of mitral annular disjunction	P1275
<i>A. M. L. Van Berendoncks, J. W. Roos - Hesselink (Rotterdam, NL)</i>	
Chiari network causing cyanosis in a 6 year old girl	P1276
<i>N. Storrington, H. Bellsham-Revell, C. Austin, S. Mathur (London, GB)</i>	
A particular approach for tuberculous effusive-constrictive pericarditis	P1277
<i>C.M. Angelescu, A. Alexandrescu, A. Scafa Udriste, M. Dorobantu (Bucharest, RO)</i>	
Rare congenital heart disease: double outlet right ventricle with atrioventricular discordance.	P1278
<i>E. Kapravelou, R. Dhannapuneni, M. Bowes (Liverpool, GB)</i>	
Transient global amnesia as a symptom of acute aortic dissection	P1279
<i>A. Fojt, R. Kowalik, A. Kaczynska, J. Kochanowski, G. Opolski (Warsaw, PL)</i>	
An overlooked defect	P1280
<i>M. Coutinho Cruz, A. Agapito, L. Moura-Branco, J.A. Oliveira, L. Sousa, M. Antonio, N. Jalles-Tavares, R. Ramos, C. Leal, F. Pinto, R. Cruz-Ferreira (Lisbon, PT)</i>	

Cross-Modality and Multi-Modality Imaging Topics

When the simplest is not the right answer

P1281

A. Marco Del Castillo, A. Lorente Ros, C. Santoro, E. Ortega, M. Plaza Martin, A. Esteban Peris, R. Hinojar Baydes, A. Garcia Martin, N. Martinez Janez, M.A. Blazquez, A. Camino Lopez, J. Lopez, J.L. Zamorano Gomez, C. Fernandez Golfín (Madrid, ES; Naples, IT)

A singular pattern of mitral valve and papillary muscle abnormalities in hypertrophic cardiomyopathy: implications for surgical treatment

P1282

G. Binda, A. Stazi, S. Stella, C. Capogrosso, F. Ancona, M. De Bonis, A. Castiglioni, O. Alfieri, E. Agricola (Milan, IT)

An atypical case of Fabry disease with obstructive hypertrophic cardiomyopathy: a multimodality imaging based diagnosis

P1284

I.S. Visoiu, R.C. Rimbas, A.O. Ciobanu, A.I. Nicula, M. Iascone, R. Jurcut, M. Cinteza, D. Vinereanu (Bucharest, RO; Bergamo, IT)

08:30 - 12:30

POSTER SESSION

POSTER AREA

Poster session 4

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Dimensions, Volumes and Mass

The mets does not confer additional risk above and beyond its individual components for lv remodelling P1286
R. Prakaschandra, D.P. Naidoo (durban, ZA)

Left ventricular mass and volume estimation in aortic stenosis: a comparison study between echocardiography and cardiovascular magnetic resonance P1287
E. Guzzetti, L. Tastet, R. Capoulade, M.S. Annabi, F. Le Ven, M. Arsenault, E. Bedard, E. Larose, M.A. Clavel, P. Pibarot (Quebec, CA)

Echocardiographic reverse left atrial remodeling after primary percutaneous coronary intervention: Results from the INNOVATION trial P1288
P.S. Song, H.M. Kim, C.W. Yu (Incheon and Seoul, KR)

Right ventricular apical bulging in repaired tetralogy of Fallot with severe pulmonary regurgitation P1289
S. Kojima, K. Obase, A. Tsuneto, Y. Kimura, N. Kaku, T. Yoshimuta, K. Maemura, K. Eishi, K. Yanagihara (Nagasaki, JP)

The prognostic value of different methods of standardising left atrial size P1290
F.J. Olsen, S. Pedersen, J.S. Jensen, T. Biering-Sorensen (Hellerup, DK)

Sports and aorta. size matters P1291
G. Masson Juarez, C. Carrero, G. Diaz Babio, I. Constantin, M. Mezzadra, T. Garcia Botta, G. Vera Janavel, P. Stutzbach (Buenos Aires, AR)

Relationship of natriuretic peptides with left atrial function within 1 month after electrical cardioversion in patients with persistent atrial fibrillation P1292
R.K. Rasa Karaliute, V.M. Vaida Mizariene, T.K. Tomas Kazakevicius, G.S. Giedre Stanaitiene, J.J. Julija Jurgaityte, J.J. Justina Jureviciute, A.K. Ausra Kavoliuniene (Kaunas, LT)

How much better than echo is cardiac MRI for diagnosing hypertrophic cardiomyopathy: real-world experience in the era of prudent healthcare P1293
V. Galusko, L. Roche, T. Ninan, A. Ionescu (Swansea, GB)

Prevalence and characterization of cardiac involvement in haemorrhagic hereditary teleangectasia: echocardiographic phenotyping of a rare disease P1294
G. Locorotondo, E. Gaetani, G. Di Matteo, L. Manfredonia, A. Gasbarrini, L. Galiuto, G.A. Lanza, F. Crea (Rome, IT)

Remodelling system classification considering left ventricular volume in patients with aortic valve stenosis: association with adverse cardiovascular outcomes P1295
Y. Bartolacelli, A. Barbieri, M. Manicardi, F. Bursi, G. Boriani (Modena, IT)

Echocardiography: Systolic and Diastolic Function

Association of left ventricular diastolic dysfunction with metabolic derangements in type 2 diabetic patients with subclinical diabetic cardiomyopathy P1296
S. Jovanova, S. Mitrovska (Skopje, MK)

Mitral annular calcification attenuates correlation between age and Doppler derived left ventricular diastolic indices P1297
H. Okura, Y. Nakada, S. Ishihara, M. Nogi, T. Soeda, S. Okayama, M. Watanabe, R. Kawakami, Y. Saito (Kashihara, JP)

Echocardiographic evaluation of the association between high cardiac output state and the presence of leg ulcer in thalassemia and sickle cell diseases. P1298
M. Bianco, P. Destefanis, I. Ridolfi, R. Pozzi, A. Piga (Orbassano, IT)

Left atrial minimum volume may be a more sensitive parameter of diastolic dysfunction	P1299
<i>M.F. Ramis Barcelo, C. Mas Llado, J.F. Forteza, A. Rodriguez, P. Pericas, J. Maristany, L. Pasamar, R. Gonzalez, M. Noris, V. Peral (Palma de Mallorca, ES)</i>	
TAPSE/PASP ratio as a marker of right ventricle dysfunction in hispanic patients with rheumatoid arthritis: a case- control study	P1300
<i>J.R. Azpiri-Lopez, D.A. Galarza-Delgado, I.J. Colunga-Pedraza, J.A. Davila-Jimenez, E.E. Abundis-Marquez, A.H. Guillen-Lozoya, F.J. Torres-Quintanilla, A. Valdovinos-Banuelos, R.E. Ramos-Cazares, R. Vera-Pineda, J.A. Cardenas-De La Garza, R.I. Arvizu-Rivera, A. Martinez-Moreno (Monterrey, MX)</i>	
Are we there yet?	P1301
<i>J.P. Sousa, J.G. Lopes, L. Reis, C. Negrier, L. Goncalves (Coimbra, PT)</i>	
Physiologic predictors of long term survival in patients undergoing CRT	P1302
<i>A. Djordjevic-Dikic, G. Nikcevic, F. Markovic, N. Boskovic, V. Jovanovic, B. Beleslin, V. Giga, M. Petrovic, G. Milasinovic (Belgrade, RS)</i>	
Early echocardiographic markers of cardiovascular risk in apparently healthy women and their mothers with arterial hypertension	P1303
<i>P. Krikunov, Y. Brytkova, R. Stryuk (Moscow, RU)</i>	
Echocardiographic characterization of patients with mid-range ejection fraction: a cross sectional study to compare reduced and mid range heart failure patients	P1304
<i>G. Malanchini, F. Sozzi, L. Diehl, P. Perolo, D. Ruggero, M. Schiavone, C. Gobbi, M. Squillace, E. Gherbesi, F. Lombardi (Milan and Voghera, IT)</i>	
Impact of gender on the effects of amiodarone and sotalol on left atrial strain and diastolic function in patients with atrial fibrillation and preserved ejection fraction	P1305
<i>E. Kokhan, G. Kiyakbaev, A. Shavarov, Z.H. Kobalava (Moscow, RU)</i>	
12-month kinetics of extracellular matrix fibrosis controlling factors: TGF, CTGF and galectin-3 in dilated cardiomyopathy patients with different grades of diastolic dysfunction.	P1306
<i>S.Y.L.W.I.A. Wisniowska-Smialek, E. Dziewiecka, K. Holcman, L. Khachatryan, M. Szymonowicz, A. Karabinowska, E. Wypasek, A. Lesniak-Sobelga, M. Hlawaty, M. Kostkiewicz, P. Podolec, P. Rubis (Krakow, PL)</i>	
Prospective randomised comparison of percutaneous coronary intervention and optimal medical therapy in chronic total occlusion-assessment of cardiac function by conventional echocardiography	P1307
<i>S. Juricic, O. Petrovic, M. Dobric, M. Tesic, M. Dikic, D. Orlic, M. Tomasevic, V. Vukcevic, B. Beleslin, S. Aleksandric, V. Dedovic, M. Zivkovic, D. Milasinovic, G. Stankovic, S. Stojkovic (Belgrade, RS)</i>	
Echocardiography: Valve Disease	
Impact of mitral valve repair on arrhythmias in mitral valve prolapse	P1308
<i>J. Radulovic, M. Brunec-Keller, P. Berdat, P. Vogt, J. Voegelé, C. Scharf, C. Attenhofer-Jost (Zurich, CH)</i>	
e-heart team: a novel tool for the decision making in high-risk patients with valvular heart disease	P1309
<i>Q. Ciampi, A. Mazza, A. Bologna, A. Martone, F.I. Gambarin, C. Lauria, C. Colizzi, M. Della Porta, R. Rosenek, F. Crea, B. Villari, M. Massetti (Benevento and Rome, IT; Vienna, AT)</i>	
Acute effects of immediate afterload reduction with transcatheter aortic valve replacement on left ventricular myocardial performance - what lies beneath?	P1310
<i>A. Chong, M. Mallouhi, A. Camuglia, C. Cole, S. Cox, K. Korver, S. Wahi (Brisbane, AU)</i>	
Assessment of the quality of echocardiography performed in specialist valve clinics compared to general cardiology clinics for valvular heart disease	P1311
<i>K. Thomas, D.N.S. Senaratne, C. Townsend, S. Wheeler, I. Jacobson, A. Elkington, K. Balkhausen, S. Bull (Oxford and Reading, GB)</i>	
Echocardiographic and laboratory parameters associated with progression of tricuspid valve regurgitation	P1312
<i>D. Verikas, R. Norvilaite, G. Ziubryte, J. Bugaite, D. Gabartaite, A. Krivickiene, J. Motiejunaite, D. Zaliaduonyte-Peksiene, K. Cerlinskaite, R. Jurgaitiene, G. Balciunaite, D. Zakartaite, A. Mebazza, A. Kavoliuniene, J. Celutkiene (Kaunas and Vilnius, LT; Paris, FR)</i>	

Posterior to anterior mitral valve leaflets length ratio and its association with severity of rheumatic mitral stenosis <i>M. Mefriyanni (Padang, ID)</i>	P1313
Non performance of transesophageal echocardiography impairs prognosis of elderly patients with infective endocarditis <i>C. Selton-Suty, C. Roubaud, F. Delahaye, A.C. Vancon, M. Dijos, P.V. Ennezat, A. Fluttaz, B. Richard, C. Beaufort, P. Nazeyrollas, C. Brasselet, O. Pineau, E. Donal, B. Lung, E. Forestier (Vandoeuvre les Nancy, Bordeaux, Lyon, Alès, Grenoble, Chambéry, Annecy, Poitiers, Reims, Villeneuve St Georges, Rennes and Paris, FR)</i>	P1314
Detection of longitudinal systolic dysfunction in patients with chronic aortic regurgitation with preserved ejection fraction by speckle-tracking echocardiographic mitral annular displacement <i>T. Hozumi, T. Nishi, K. Takemoto, N. Maniwa, M. Kashiwagi, K. Shimamura, A. Kuroi, Y. Matsuo, H. Kitabata, Y. Ino, T. Kubo, A. Tanaka, T. Akasaka (Wakayama, JP)</i>	P1315
Long-term hemodynamic improvement after transcatheter repair of secondary mitral regurgitation <i>D. Lavall, M. Mehrer, S.H. Schirmer, J.C. Reil, M. Boehm, U. Laufs (Leipzig, Homburg and Lübeck, DE)</i>	P1316
May functional mitral regurgitation in patients with coronary artery disease without myocardial infarction be of non- coronary origin? <i>E.I. Yaroslavskaya, V.A. Kuznetsov, E.A. Gorbatenko (Tyumen, RU)</i>	P1317
Inncidence of mitral annular calcification and its association with mitral valvular disease <i>H. Okura, Y. Nakada, A. Keshi, M. Nogi, S. Ishihara, N. Toyokawa, A. Okamura, S. Okayama, M. Watanabe, R. Kawakami, Y. Saito (Kashiwara, JP)</i>	P1318
The prognostic importance of mitral deformation indexes and left ventricle volumes in patients with ischemic mitral regurgitation and multivessel disease qualified to cardiosurgery treatment <i>R. Piatkowski, J. Kochanowski, P. Scislo, M. Budnik, M. Grabowski, D.A. Kosior, G. Opoliski (Warsaw, PL)</i>	P1319
Layer-specific myocardial deformation in patients with symptomatic severe aortic stenosis before and after transcatheter aortic valve replacement <i>V. Evola, R. Sorrentino, M. Lembo, M. Scalamogna, M. Avvedimento, R. Esposito, G. Novo, B. Trimarco, G. Esposito, M. Galderisi (Palermo and Naples, IT)</i>	P1320
Comparison of baseline characteristics and outcomes after transcatheter aortic valve implantation in women with and without history of breast cancer <i>S. Miyazaki, K. Hirose, R. Morimoto, M. Maruyama, E. Kaya, T. Fukase, R. Nishio, S. Doi, S. Okazaki, H. Daida (Tokyo, JP)</i>	P1321
Right ventricle dysfunction in severe aortic stenosis: prevalence and risk factors. <i>J. Ramos Jimenez, S. Hernandez, M. Plaza Martin, J.M. Vieitez Florez, M. Abellas Sequeiros, J.L. Zamorano Gomez (Madrid, ES)</i>	P1322
3D echocardiography vena contracta area might be useful to identify patients with mitral regurgitation persistence after surgical aortic valve replacement in patients with severe aortic stenosis. <i>E.L. Posada, H. Rodriguez-Zanella, J.F. Fritche-Salazar, X.A. Ortiz-Leon, A. Jordan-Rios, K. Balderas-Munoz, D. Sierra Lara-Martinez, O. Calvillo-Arguelles, M.E. Ruiz Esparza-Duenas, J. Gaspar-Hernandez, M.A. Martinez-Rios, J.A. Arias-Godinez (Mexico City, MX)</i>	P1323
Tissue Doppler, Speckle Tracking and Strain Imaging	
Can resting segmental strain be used as an indicator for stable coronary artery disease? <i>A.R. Rosner, M.S. Sandberg, D.K. Kjonaas, T.J. Jensen (Tromso, NO)</i>	P1324
Insights into cardiac functional alterations after a 246 km ultra-marathon race based on simultaneous 4-chamber longitudinal strain assessment. <i>E. Pagourelas, G. Christou, M. Anifanti, P. Sotiriou, K. Christou, N. Koutlianos, E. Kouidi, A. Deligiannis (Thessaloniki, GR)</i>	P1325
Identification and defintion of right ventricular cardiotoxicity by trastuzumab <i>K. Keramida, J. Bingcang, S. Sulemane, S. Sutherland, R.A. Bingcang, G. Charalampopoulos, N. Kouris, K. Ramachandran, P. Nihoyannopoulos (Athens, GR; London, GB)</i>	P1326

- Premature ventricular contractions are presaged by a dyssynchronous sinus beat P1328
C. Alhede, A. Hadjis, D. Bibby, Q. Fang, T. Abraham, N.B. Schiller, E.P. Gerstenfeld (San Francisco, US)
- Prospective evaluation of atrial function by 2d speckle tracking analysis in HER-2 positive breast cancer patients during trastuzumab therapy P1329
G. Bragantini, C. Bergamini, G. Benfari, A. Comunello, E. Setti, G. Dolci, S. Truong, D. Lanza, E. Fiorio, L. Carbognin, M. Dal Porto, L.F. Cerrito, A. Rossi, F.L. Ribichini (Verona and Rovigo, IT)
- Ejection fraction and global longitudinal strain variability between methodology and experience. Is this the dawn of the independence day? P1331
K. Keramida, V. Kostopoulos, G. Psarrou, C.D. Olympios, N. Kouris (Athens, GR)
- Myocardial constructive work is additive to left ventricular dyssynchrony and volumetric response to CRT in the prediction of mortality after CRT implantation. P1332
E. Galli, A. Hubert, V. Le Rolle, A. Hernandez, P. Mabo, C. Leclercq, E. Donal (Rennes and RENNES, FR)
- Prominent longitudinal strain reduction of left ventricular basal segments at rest and after exercise in body builder assuming androgenic anabolic steroids P1333
F. Lo Iudice, A.M. De Roberto, A. Buonauro, M. Ferrone, R. Esposito, D. Franco, A. D'andrea, B. Trimarco, M. Galderisi (Naples, IT)
- Correlation between myocardial strain and non-invasive myocardial work indices: results from the eacvi norre study P1334
R. Manganaro, R. Dulgheru, S. Marchetta, G. D'amico, F. Ilardi, S. Cimino, T. Sugimoto, C. Zito, S. Carerj (Liege, BE; Messina, IT)
- Left atrial electromechanical delay - A unique predictor of non-AF supraventricular tachycardia in patients with hypertrophic cardiomyopathy P1335
A. Nowak, Z. Oko-Sarnowska, R. Ochotny, P. Mitkowski, M. Lesiak (Poznan, PL)
- Effect of sodium-glucose cotransporter 2 inhibitor on diastolic function and global longitudinal strain (GLS) in patients with heart failure with preserved ejection fraction (HFpEF). P1336
T. Sakai, S. Miura (Kitakyusyu and Fukuoka, JP)
- Left atrial strain analysis by means of speckle tracking echocardiography: a new sensitive tool in the diagnosis of acute cellular rejection in heart transplant recipients P1337
S. Rodriguez Diego, M. Ruiz Ortiz, M. Delgado Ortega, J.W. Weinsaft, J. Kim, L. Carnero Montoro, J. Sanchez Fernandez, F. Carrasco Avalos, J. Lopez Aguilera, A. Lopez Granados, J.M. Arizon Del Prado, A. Luque Moreno, J. Oneto Fernandez, M. Pan Alvarez-Ossorio, D. Mesa Rubio (Cordoba, ES; New York, US)
- Circulating microRNAs and cardiac dysfunction in patients with coronary artery disease and type II diabetes assessed by 3D and 2D ecocardiography P1338
L. Gheorghiu, A. Ciobanu, E. Butoi, R. Macarie, M. Vadana, L. Ciortan, M. Tucureanu, L. Luchian, R. Copciag, D. Vinereanu (Bucharest, RO)
- Echocardiographic reference ranges for normal non-invasive myocardial work indices: results from the eacvi norre study P1339
R. Manganaro, R. Dulgheru, S. Marchetta, S. Cimino, G. D'amico, F. Ilardi, T. Sugimoto, C. Zito, S. Carerj, P. Lancellotti (Liege, BE; Messina, IT)
- Quantitative methods for assessing ventricular function in youth population with D - Transposition of the great arteries after P1340
R. Marinov, K. Hristova, L. Burdarska, D. Dobrev, R. Lekova, P. Parshkevova, A. Kaneva (Sofia, BG)
- Left atrial contractile function in breast cancer patients undergoing trastuzumab therapy P1341
E. Stefanidis, A. Katbeh, A. Pipertzi, I. Michelis, E. Silva, A. Milkas, Z. Balogh, K. De Knijf, G. Van Camp, M. Penicka (Aalst, BE)
- Improvement of myocardial and vascular function by inhibition of Interleukin 1 and 6 in patients with rheumatoid arthritis: a comparative study. P1342
I. Ikonomidis, G. Pavlidis, P. Katsimbri, I. Andreadou, H. Triantafyllidi, M. Varoudi, D. Vlastos, G. Kostelli, D. Benas, J. Lekakis, D. Boumpas, E. Iliodromitis (Athens, GR)

Myocardial longitudinal strain predicts in-hospital and post-discharge heart failure in patients with acute anterior wall ST-segment elevation myocardial infarction P1343

S. Lee, J.Y. Lee, L.Y. Jung, Y.S. Kim, S.R. Lee, K.S. Rhee, J.K. Chae, W.H. Kim (Jeonju, KR)

Reduced left atrial myocardial function in young but not old male athletes after cycling 3000 km in two weeks P1344

H. K. Rasmussen, T. Sehestedt, F. Dela, J. Frandsen, R.E. Sahl, J.W. Helge (Copenhagen, DK)

Impact of cumulative dose of cisplatin on cardiac function in testicular cancer survivors assessed by traditional and novel echocardiographic methods: a 30-year follow-up P1345

A.W. Bjerring, S.D. Fossa, K.H. Haugaa, T. Edvardsen, S.I. Sarvari (Oslo, NO)

How to assess left atrial function in patients with paroxysmal atrial fibrillation undergoing first or redo catheter ablation: what is the most promising parameter? P1346

A. Katbeh, E. Silva, T. De Potter, E. Stefanidis, Z. Balogh, K. Iliodromitis, P. Geelen, G. Van Camp, E. Barbato, M. Penicka (Aalst, BE)

Determinants of left atrial longitudinal strain in breast cancer patients treated with trastuzumab P1347

A. Comunello, C. Bergamini, G. Benfari, E. Setti, G. Bragantini, G. Dolci, S. Truong, D. Lanza, E. Fiorio, L. Carbognin, L.F. Cerrito, M. Dal Porto, A. Rossi, F.L. Ribichini (Verona and Rovigo, IT)

Biventricular systolic function analysis in patients with Marfan syndrome using speckle-tracking 2D ecocardiography P1348

M. Torres Sanabria, S. Mingo Santos, V. Monivas Palomero, E. Garcia-Izquierdo Jaen, C.E. Martin Lopez, C. Aguilera Agudo, J. Baena Herrera, J. Gonzalez Mirelis, S. Navarro Rico, C. Mitroi, A. Forteza Gil (Madrid, ES)

Left atrial global longitudinal strain is an independent predictor for atrial fibrillation recurrence after radiofrequency catheter ablation regardless of CHA2DS2-VASc score and atrial size P1349

P. Manoloukou, M. Agelaki, P. Koudounis, J. Grapsa, A. Christou, T. Zografos, P. Nihoyannopoulos, A. Katsivas (Athens, GR; London, GB)

Assessment of left ventricular myocardial strain using speckle tracking echocardiography in an animal model of chagas disease. P1350

F.F.F. Ribeiro, H.T. Moreira, A.C.L. Barros-Filho, D.M. Tanaka, C.G. Fabricio, L.F.L. Oliveira, M.V. Simoes, A. Schmidt, B.C. Maciel, J.A. Marin-Neto, M.M.D. Romano (Ribeirao Preto, BR)

Importance of septal inward motion to global right ventricular function after heart transplantation P1351

M. Tokodi, B.K. Lakatos, A. Assabiny, B. Sax, B. Merkely, A. Kovacs (Budapest, HU)

Stress Echocardiography

Exercise left ventricular end-systolic volume index predicts development of left ventricular dysfunction post aortic valve replacement in asymptomatic patients with chronic aortic regurgitation P1352

Y. Sato, M. Izumo, T. Suzuki, D. Koto, M. Tsukahara, K. Teramoto, R. Kamijima, K. Mizukoshi, S. Kou, M. Takai, K. Suzuki, T. Harada, Y.J. Akashi (Kawasaki, JP)

Stress echocardiography in patients with end-stage renal disease pre and post renal transplantation - single center experience P1353

D.A.N.I.E.L. Sebaiti, A. Briosas, P. R. Fazendas, I. Cruz, A.R. Almeida, I. Joao, H. Pereira (Almada, PT)

Assessment of left ventricular reversible diastolic dysfunction in patients with ST elevation myocardial infarction by low dose dobutamine stress-echocardiography P1354

S.R. Kenjaev, M. L. Kenjaev, A. L. Alyavi, M. S. Mirmaksudov, R. A. Rakhimova (Tashkent, UZ)

Global longitudinal strain during vasodilator stress echo is associated with coronary microvascular function in patients with stable coronary artery disease P1355

T. Brodin, S. Svedlund, L.M. Gan (Gothenburg, SE)

Left atrial volume changes during stress echocardiography P1356

D. Morrone, M.G. D'alfonso, A. Djordjevic-Dikic, F. Re, I. Simova, A. Varga, M. Dekleva, T. Ryabova, A. D'andrea, F. Lattanzi, Q. Ciampi, I. Olivotto, C. Carpeggiani, G. Limongelli, E. Picano (Pisa, Florence, Rome, Naples and Benevento, IT; Belgrade, RS; Sofia, BG; Szeged, HU; Tomsk, RU)

Inflammation-related impairment of left ventricular functional reserve in patients with systemic lupus erythematosus: a speckle-tracking exercise echocardiographic study P1357

Y.T. Fan, G. Tse, Q. Shang, B.P. Yan, L.S. Tam, A.P. Lee (Hong Kong, HK)

Feasibility of the two-dimensional speckle tracking stress echocardiography during the physical exercise on the treadmill	P1358
<i>A.I. Stepanova, N.F. Radova, M.N. Alekhin (Moscow, RU)</i>	
hsTnT in lower risk patients undergoing stress echocardiography with normal result	P1359
<i>K. Medilek, L. Zaloudkova, R. Pudil, E. Cermakova, P. Krejci, J. Stasek (Hradec Kralove, CZ)</i>	
Type 1 diabetics with end-stage chronic kidney disease prior to transplantation: echocardiographic findings at rest and stress	P1360
<i>M. J. Andrade, R. Calca, P. Branco, E. Horta, A. Gaspar, R.I.T.A. Birne, C.A.R.L.A. Reis, T.I.A.G.O. Carvalho, M.I.G.U.E.L. Mendes (Carnaxide, PT)</i>	
Aortic valve area estimated by continuity equation versus simplified method of projected aortic valve area in patients with low-flow low-gradient aortic stenosis	P1361
<i>A. Marques, A.C. Gomes, K. Congo, P. Fazendas, A.R. Pereira, S. Alegria, D. Sebaiti, I. Cruz, A.R. Almeida, I. Joao, H. Pereira (Almada and Evora, PT)</i>	
The diagnostic and prognostic role of a combined stress contrast echo protocol in patients with suspected coronary disease and pacemaker	P1362
<i>C. Aggeli, Y. Dimitroglou, A. Verveniots, K. Zisimos, L. Raftopoulos, S. Kastellanos, G. Sarri, A. Aggelis, J. Felekos, D. Tousoulis (Athens, GR)</i>	
Exercise limitation in patients with mitral stenosis: a cardiopulmonary stress echocardiography study	P1363
<i>S. Badiani, J. Van Zalen, A. Althunayyan, S. Al-Borikan, K. Armado, R. Monteiro, D. Hoare, M. Khanji, A. Timmis, A. Jain, S. Bhattacharyya, G. Lloyd (London, GB)</i>	
The value of changes of NT-proBNP level during exercise echocardiography in patients with moderate functional ischemic mitral regurgitation qualified for cardiosurgical treatment.	P1364
<i>J. Kochanowski, R. Piatkowski, P. Scislo, M. Budnik, M. Grabowski, M. Marchel, G. Opolski (Warsaw, PL)</i>	
3D Echocardiography	
Right ventricular geometry and septum curvature in group 2 pulmonary hypertension patients	P1365
<i>M. Barletta, M.C. Palumbo, F. Bandera, A. Giammarresi, V. Labate, M. Losito, M.M. Caracciolo, M. Rovida, M. Guazzi (San Donato Milanese and Milan, IT)</i>	
Accurate quantification of left ventricular mass in patients with non-ischemic dilated cardiomyopathy based on three-dimensional echocardiography	P1366
<i>K. Sveric, F. Heidrich, M. Rady, S. Quick, U. Speiser, A. Linke (Dresden, DE)</i>	
Low gradient aortic stenosis: can LVOT area evaluation by 3D Transoesophageal echocardiogram help?	P1367
<i>A. Marques, S. Alegria, R. Carvalheira Santos, G. Morgado, P. Fazendas, A.R. Pereira, A.C. Gomes, I. Cruz, A.R. Almeida, I. Joao, H. Pereira (Almada and Vila Franca de Xira, PT)</i>	
Segmentation of calcium on the mitral annulus with 3D transesophageal echocardiography multiplanar reconstruction vs multislice computed tomography.	P1368
<i>G. Binda, C. Capogrosso, S. Stella, F. Ancona, A. Fisicaro, S. Altizio, E. Toscano, A. Beneduce, V. Romano, A. Latib, M. Montorfano, A. Margonato, A. Colombo, E. Agricola (Milan, IT)</i>	
Non-alcoholic cirrhotic patients evaluated by three-dimensional speckle tracking echocardiography	P1369
<i>M. Santos Furtado, A.C. Rodrigues, I. Kowatsch, A.F. Cardoso, D.S. Barros, A.R. Diniz, O.M. Silvestre, J.L. Andrade (Sao Paulo, BR)</i>	
3D echocardiography parameters phenotype the right ventricle in heart failure patients: analysis of chamber size, function and volume-time curve	P1370
<i>M. Barletta, F. Bandera, A. Giammarresi, V. Labate, M. Losito, M.M. Caracciolo, M. Rovida, M. Guazzi (San Donato Milanese, IT)</i>	
Large beat-to-beat variability of mitral annulus dimensions in atrial fibrillation: implications for interventional therapy	P1371
<i>H. Olgun Kucuk, D. Oguz, J.J. Thaden, V.T. Nkomo, G.C. Kane, C. Pislaru, B.M. Wiley, M.E. Sarano, C.S. Rihal, M.F. Eleid, P.A. Pellikka, S.V. Pislaru (Rochester, US)</i>	

Evaluation of right atrial and ventricular function with 3D echocardiography in acute pulmonary thromboembolism and its 6-month prognosis	P1372
<i>R. Rascon Sabido, C.M.H. Martinez Hernandez, C.M.H. Martinez Hernandez, D.I.Q. Ibarra Quevedo, D.I.Q. Ibarra Quevedo, M.C.E. Carrillo Estrada, M.C.E. Carrillo Estrada, E.A.G. Almeida Gutierrez, E.A.G. Almeida Gutierrez (Veracruz, MX)</i>	
Comparison of methods for diagnosing Cardiotoxicity	P1373
<i>S. Grigoriadis, S. Kapetanakis (London, GB)</i>	
Variability and agreement in the assessment of left ventricular ejection fraction and volumens applying automated tracking by 2D and 3D echocardiographic Techniques	P1374
<i>F. Ericsson, B. Tayal, K. Hay Kragholm, M. Weinkouff Pedersen, P. Schnohr, N. Holmark Andersen, R. Moegeltvang, P. Soegaard (Aalborg, Hjorring and Copenhagen, DK)</i>	
Echocardiography, Other	
Epicardial adipose tissue thickness measured by echocardiography is a useful marker for predicting in-stent restenosis	P1375
<i>Y. Hirata, K. Kusunose, H. Yamada, Y. Torii, S. Nishio, R. Zheng, Y. Saijo, M. Bando, T. Ise, K. Yamaguchi, T. Wakatsuki, M. Sata (Tokushima, JP)</i>	
Assessment of ascending aorta mechanics in hypertensive patients with different left ventricular remodeling patterns	P1376
<i>A. E. Vijiac, S. Onciul, M. Dorobantu (Bucharest, RO)</i>	
Incidence and predictors of long term cardiotoxicity in anthracycline based chemotherapy in breast cancer patients	P1377
<i>R. Mata Caballero, J.M. Serrano Antolin, I.A. Gonzalez Garcia, J.M. Muniz Garcia, A. Curcio Ruigomez, C. Gutierrez Landaluze, S. Del Castillo Arrojo, C. Graupner Abad, C. Cristobal Varela, D. Galan Gil, J. Lopez Pais, M.J. Espinosa Pascual, D. Malon Gimenez, P. Awamleh Garcia, J.J. Alonso Martin (Getafe and Fuenlabrada, ES)</i>	
Severely reduced right ventricular fractional area change in patients with chronic left heart disease indicate increased pulmonary vascular resistance	P1378
<i>O. Bech-Hanssen, S.E. Ricksten, S.A. Gao (Gothenburg, SE)</i>	
Pericardial Decompression Syndrome: Incidence in a Large Consecutive Series of Echocardiographic-guided Pericardiocentesis Procedures	P1379
<i>A.N.N.O.P. Lekhakul, C.H.A.L.A.I. Assawakawintip, E.R.I.C. Fenstad, S.O.R.I.N. Pislaru, L.A.W.R.E.N. Sinak, G.A.R.V.A.N. Kane (Rochester, US)</i>	
In the search of heart barometer - advantage of left atrial dimension over electrocardiographic indices in the detection of left ventricular hypertrophy in patients with arterial hypertension.	P1380
<i>B. Nowak, R. Nowakowski, A. Gapys, E. Trzos, M. Kurpesa, P. Lipiec, J.D. Kasprzak, U. Cieslik-Guerra, B. Uznanska-Loch, K. Wierzbowska-Drabik (Lodz, PL)</i>	
Ventricular-arterial coupling is significantly improved with treatment in patients with decompensated heart failure with reduced ejection fraction	P1381
<i>O. Lukina, A. Soloveva, I. Meray, S. Villevalde, Z. Kobalava (moscow, RU)</i>	
Normative values of the maximum velocity on the pulmonary artery valve in children and adolescents	P1382
<i>A.V. Tsokolov (Kaliningrad, RU)</i>	
Analysis of right ventricular function by iso-volumetric relaxation time using echocardiography	P1383
<i>S. Stoebe, C. Fuertig, D. Pfeiffer, U. Laufs, A. Hagendorff (Leipzig, DE)</i>	
Echocardiographic features of PAH in congenital heart diseases and in idiopathic PAH.	P1385
<i>N. Methia, S. Latreche, O. Mehenni, M. Djouhri, F. Harbi, S. Benkhedda (Algiers, DZ)</i>	
High velocities in coronary arteries during transthoracic echocardiography can predict 3-year adverse outcomes	P1386
<i>A. Zagatina, N. Zhuravskaya, O. Guseva, E. Kalinina, D. Shmatov (Saint Petersburg and St. Petersburg, RU)</i>	
Relationship between echocardiography-based and invasive estimates of pulmonary vascular resistance in left heart disease	P1387
<i>J. Hamade, H. Abdulrahim, C. Da Silva, C. Sequeira, A. Manouras, L.H. Lund, B. Kjellstrom, A. Venkateshvaran (Stockholm, SE)</i>	

New onset diabetes mellitus facilitates aortic stiffening following successful kidney transplantation P1388
A. Nemes, B. Borda, A. Kormanyos, A. Kalapos, P. Domsik, L. Lazar, T. Forster (Szeged, HU)

Determinants of mitral leaflet size in hypertrophic cardiomyopathy P1389
H. Chung, J.Y.K. Kim, P.K.M. Min, Y.W.Y. Yoon, B.K.L. Lee, B.K.H. Hong, S.J.R. Rim, H.M.K. Kwon, E.Y.C. Choi (Seoul, KR)

Computed Tomography

Myocardial perfusion SPECT defects in patients with MV prolapse P1390
N. Maroz-Vadalazhskaya, E. Trisvetova, O. Vrublevskaya (Minsk, BY)

Imaging: Myocardial Disease

Effects of left bundle branch block on left ventricular dyssynchrony in hypertrophic cardiomyopathy patients after surgical correction of left ventricular outflow tract obstruction P1391
E. Pavlyukova, A. Evtushenko, K. Smushlyayev, A. Kanev, R. Karpov (Tomsk, RU)

Imaging, Other

A Portuguese risk prediction score for sudden cardiac death in hypertrophic cardiomyopathy P1392
C. Ruivo, F. Montenegro Sa, J. Correia, J. Morais (Leiria, PT)

Oral anticoagulation in patients with atrial fibrillation: the contemporary trends in primary care P1393
S. K. M. Gardezi, J. Wilson, A. Kennedy, A. Prothero, S.G. Myerson, B.D. Prendergast (Oxford and London, GB)

Impact of etiology in functional tricuspid regurgitation P1394
A. Marco Del Castillo, C. Santoro, A. Gonzalez Gomez, J.M. Monteagudo Ruiz, A. Pardo Sanz, A. Garcia Martin, J.J. Jimenez Nacher, J.L. Moya Mur, E. Casas Rojo, J.L. Zamorano, C. Fernandez Golfín (Madrid, ES; Naples, IT)

Improvement of endothelial glycocalyx thickness is related with reduced stiffness, wave reflections and arterial blood pressure, after treatment with il-12/23 antagonist, in psoriasis. P1395
I. Ikonomidis, M. Varoudi, E. Papadavid, G. Makavos, G. Kostelli, G. Pavlidis, H. Triantafyllidi, I. Kapniari, K. Theodoropoulos, D. Vlastos, J. Lekakis, E. Iliodromitis (Athens, GR)

Renal and carotid resistive indexes : the same matter with different layout? P1396
I. Cabac Pogorevici, V. Revenco (Chisinau, MD)

Does orthostatic unload test is able to predict syncope in patients with severe aortic stenosis P1397
P. Kleczynski, P.P. Dimitrow, A. Dziewierz, T. Rakowski, A. Surdacki, D. Dudek (Krakow, PL)

Utility of the superb micro-vascular imaging for assessment of intraplaque neovascularization in patients with symptomatic carotid stenosis P1398
W. Sato, T. Iino, H. Nanjo, H. Shimizu, H. Watanabe (Akita, JP)

Resting pulmonary pressure cosine curve analysis correlates closely with peak exercise pressures in pulmonary hypertension. P1399
E. Tossavainen, M.Y. Henein, R. Eriksson, U. Wiklund, P. Lindqvist (Umea and Umeå, SE)

The additional value of cardiopulmonary exercise testing over conventional treadmill testing in patients with moderate to severe aortic stenosis. P1400
S. Badiani, J. Van Zalen, L. Hart, A. Topham, K. Armado, D. Hoare, R. Monteiro, A. Althunayyan, S. Al-Borikan, A. Marshall, S. Bhattacharyya, N. Patel, G. Lloyd (London and Eastbourne, GB)

Cardiovascular risk in patients with Behcet disease: a nationwide population-based dynamic cohort study P1401
H.S. Ahn, Y.B. Lee, S.H. Kim, C.S. Park, S.K. Ryu, H.K. Jeon (UiJeongbu, Seoul and Bucheon, KR)

Ultrasound vascular indexes improve the prediction of coronary revascularization in patients scheduled for elective coronary angiography P1402
M. Balys, M. Haberka, K. Szostak-Janiak, L. Maciejewski, M. Matla, Z. Gasior (Katowice, PL)

Integrated cardio-pulmonary ultrasound - A simple tool to rule out early post-procedural complication in cardiac pacing.	P1403
<i>J. Atenska-Pawlowska, P. Syska, A. Maciag, D. Zajac, P. Andruszkiewicz, M. Pytkowski, H. Szwed, M. Lewandowski (Warsaw, PL)</i>	
Intrarenal venous flow demodulation and right ventricle-to-pulmonary circulation uncoupling in acute respiratory failure	P1404
<i>N.S.M. Bianchi Bosisio, D. Raimondi Cominesi, M. Dei Poli, M.V. Resta, V. Labate, F. Bandera, M. Guazzi (San Donato Milanese, IT)</i>	
Very low doses of bisphenol A enhance doxorubicin related cardiotoxicity by stimulating release of proinflammatory interleukins, oxidative stress and lipid peroxidation in cardiomyocytes	P1405
<i>V. Quagliariello, C. Coppola, G. Piscopo, G. Botti, C. Maurea, N. Maurea (Naples, IT)</i>	
Development of mixed reality interactive visualization for three-dimensional echocardiography.	P1406
<i>J. Pawlowski, K. Janc, U. Kaczor, J. Kaminski, J.I. Kasprzak, M. Kierepka, B. Machura, J. Witowski, D. Zebrowski, K. Wdowiak-Okrojek, P. Lipiec, J.Z. Peruga, R. Krecki, J.D. Kasprzak (Krakow and Lodz, PL)</i>	
Cognitive trajectory following trans-catheter aortic valve implantation	P1407
<i>M. Turani, A. Apor, A. Varga, F. Suhai, B. Szilveszter, A. Bartykowszki, R. Papp, J. Karady, M. Kolossvary, A. Jermendy, B. Veress, A. Panajotu, B. Merkely, P. Maurovich-Horvat, A. I. Nagy (Budapest, HU)</i>	
Cardioprotective effects of nanoemulsions loaded with anti-inflammatory nutraceuticals against doxorubicin-induced cardiotoxicity	P1409
<i>V. Quagliariello, C. Coppola, R. Vecchione, G. Piscopo, R.V. Iaffaioli, G. Botti, P.A. Netti, F. Maurea, N. Maurea (Naples, IT)</i>	
Feasibility, accuracy and clinical influence of pocket-sized imaging of the carotid arteries performed by non-experts in patients with ischemic stroke or transitory ischemic attack	P1410
<i>L. M. Saxhaug, A. Hjort-Hansen, H. Hildrum, K. I. Holm, H. Ellekjaer, K. Skjetne, J. O. Kleinau, S. Stoelen, T. Graven, H. Dalen (Trondheim and Levanger, NO)</i>	

14:00 - 18:00

POSTER SESSION

POSTER AREA

Clinical case poster session 5

All posters are on display from 14:00 to 18:00.

From 15:30 to 16:30: Meet the presenters by their poster.

Tissue Doppler, Speckle Tracking and Strain Imaging

Structural versus functional changes in the left atrium in a patient with trastuzumab-related cardiotoxicity <i>G. Dolci, C. Bergamini, G. Benfari, A. Comunello, E. Setti, G. Bragantini, S. Truong, E. Fiorio, A. Rossi, F. Ribichini (Verona, IT)</i>	P1411
Left atrial strain during trastuzumab therapy: a new side of cardiotoxicity? <i>E. Setti, C. Bergamini, G. Benfari, G. Bragantini, A. Comunello, G. Dolci, E. Fiorio, L. Carbognin, L.F. Cerrito, M. Dal Porto, A. Rossi, F.L. Ribichini (Verona, IT)</i>	P1412
High altitud pulmonary edema <i>J.C. Sauza-Sosa, A. Rugerio-Cabrera, E.G. Bautista-Bautista (Mexico City, MX)</i>	P1413
The effect of two types of resistance exercise (concentric failure versus non-failure) on cardiac biomarker and cardiac mechanics in athletes: a comparison study <i>D. Saed, A.N.I.T.A. Sadeghpour, A.Z.I.N. Alizadehasl, R.A.S.O.U.L. Dokht Abdiyan, A.B.B.A.S. Zavarehee, A.H.M.A.D.I. Ahmadi (Tehran, IR)</i>	P1414
Segmental myocardial work in the detection of ischemia <i>J. P. Dias Ferreira Reis, T.B. Mano, A. Galrinho, L. Branco, I. Rodrigues, D. Cacula, A. Fiarresga, R. Cruz Ferreira (Lisbon, PT)</i>	P1415
A rare case of dilated cardiomyopathy associated with cocaine use .. the role of speckle tracking echocardiography in assessing myocardial function <i>M. G. Brutaru, D. M. Dorobantu, A. Calin, C. Ginghina, B. A. Popescu, I. M. Coman (Bucharest, RO)</i>	P1416
Stress strain imaging in diagnosis of LMCA & 3 vessel disease <i>V. Amuthan, R.V.A. Ananth, B.R.J. Kannan (Madurai, IN)</i>	P1417
Left ventricle global and regional longitudinal mechanics assessed by 2D speckle-tracking echocardiography in a child with parvovirus b19 acute myocarditis <i>G. Leal, L.C.V.F. Souza, G.M. Franca, A.C. Lianza, M.F. Diniz, K.S. Shiraishi, C.R. Brito, F.K. Foronda, A. Delgado, W.B. Carvalho (Sao Paulo, BR)</i>	P1418
Left ventricle Non-compaction cardiomyopathy: a functional study. <i>I. P. Monte, F. Privitera, L. D'urso, D.C. Faro, V. Losi, M. Sanfilippo, C. Tamburino (Catania, IT)</i>	P1419
Unveiling early findings of an ancient disease: a case of tuberculous pericarditis <i>O. Ibrahim, E. Khalifa, A. Omosola, S.H. Helmy (Doha, QA)</i>	P1420
Association analysis between left atrial function and left atrial appendage function in patients with nonvalvular atrial fibrillation <i>G. Hashimoto, M. Suzuki, K. Makino, H. Hayama, S. Ide, R. Iijima, H. Hara, M. Moroi, M. Nakamura (Tokyo, JP)</i>	P1421
Echocardiography, Other	
Subacute myocardial infarction complicated by lateral free wall rupture, cardiac tamponade and death <i>A. Siama, E. Hamodraka, A. Tsoukas, A.J. Manolis (Athens, GR)</i>	P1422
New clue for diagnosis of adult ALCAPA <i>R. Parikh, B. Talaviya, M. Maske (NASHIK and Nagpur, IN)</i>	P1423
CRT inversus? <i>J. Ferreira, S. Costa, F. Franco, F. Freitas, C. Ferreira, J. Milner, P. Alves, V. Marinho, C. Domingues, R. Martins, S. Monteiro, L. Goncalves (Coimbra, PT)</i>	P1424

Loeffler endocarditis due to T-cell lymphoma	P1425
<i>G. Aurrekoetxea Bajeneta, N. Garcia Ibarrondo, M. Codina Prat, I. Sanz Ortega, I. Bravo Martinez, A. Manzanal Rey, P.M. Mendoza Cuartero, C. Asla Ormaza, G. Ramirez-Escudero, L. Ruiz Gomez (Bilbao, ES)</i>	
Cardiac tamponade in a patient with mixed connective tissue disease	P1427
<i>F. Batista, H. Ferreira, C. Henriques (Amadora, PT)</i>	
Iatrogenic aorto-right atrial communication after tricuspid annuloplasty	P1428
<i>L.T. Lam (Hong Kong, HK)</i>	
A myocardial ticking clock	P1429
<i>J. A. Duarte, H. Ferreira, A. Freitas, A. Baptista, F. Madeira, C. Morais (Amadora, PT)</i>	
A case of radiation induced heart disease.	P1430
<i>S. Badiani, K. Patel, R. Monteiro, J. Malcolmson, L. Sturridge, S. Bhattacharyya, G. Lloyd (London and Surrey, GB)</i>	
Huge right atrium thrombosis with succesfull thrombolysis	P1431
<i>R.E. Constantin, M. Moarcas, J. Dumitrescu, S. Dumitrache, C. Zara (Brasov, RO)</i>	
A case of "echonegative" large ascending aortic aneurysm	P1432
<i>P. Kozlov, G. Berkovich, O. Nikolaeva (St Petersburg, RU)</i>	
Computed Tomography	
Aortic root pseudoaneurysm mimicking sinus of valsalva aneurysm	P1433
<i>A. Kourtinos, P. Margariti, O. Argyri, P. Dedeilias, K. Pappas (Ioannina and Athens, GR)</i>	
Recurrent hypo-attenuated leaflet thickening after transcatheter aortic valve implantation	P1434
<i>A. Bartykowski, A. Apor, M. Kolossvary, J. Karady, F. Suhai, B. Szilveszter, A.L. Jermendy, Nagy, L. Molnar, R. Papp, A. Molnar, D.Z. Drobni, P. Orosz, B. Merkely, P. Maurovich- Horvat (Budapest, HU)</i>	
A total eclipse of the heart	P1435
<i>C.C. Oliveira, C. Lacerda, N. Antunes, C. Braga, C. Vieira, I. Campos, G. Abreu, J. Lages, D. Seabra, J. Marques (Braga and Penafiel, PT)</i>	
Percutaneous closure of left ventricular pseudoaneurysm in guidance of multimodality imaging	P1436
<i>C. Alak, E. Ozpelit, Y. Yilancioglu, I. Koyuncu, O. Badak (Izmir and Usak, TR)</i>	
Imaging: Congenital Heart Disease	
A rare case of aortopulmonary window in an adult- A postpregnancy diagnosis	P1437
<i>Riebel, S. Moț, A. Serban (Cluj Napoca, RO)</i>	
Drowsiness as a first symptom of relevant atrial septal defect in young female athlete candidate	P1438
<i>R. Skalik (Wroclaw, PL)</i>	
Connection between peters plus syndrome and congenital heart diseases	P1439
<i>T. Kemaloglu Oz, C. Fiore, W. Al Madani, T. Gurol, Ö. Soylu, B. Dagdeviren (Istanbul, TR; Lecce, IT)</i>	
Can aortapulmonary window be presented at advanced age?	P1440
<i>T.U.G.C.E. Colluoglu, O.R.H.A.N. Onalan (Karabük, TR)</i>	
From kidney to kidney: an unusual case of paradoxical embolism through a patent foramen ovale in the course of a massive pulmonary embolism	P1441
<i>M. Mapelli, V. Bozzano, L. Fusini, M. Muratori, F. Celeste, F. Nicoli, I. Capodaglio, A. Annoni, P. Gripari, G. Tamborini, C. Vignati, E. Conte, S. Ghulam Ali, M. Pepi, P. Agostoni (Milan, IT)</i>	
Congenital type 1 Gerbode defect in an elderly patient	P1442
<i>O. Tok, G. Bingol, D. Lulaj, A. Murat, I. Onur, M. Nasifov, O. Goktekin (Istanbul, TR)</i>	
Isolated persistent left superior vena cava with giant coronary sinus presenting as atrial tachycardia	P1443
<i>E. A. Khalifa, A. N. Ghareep, G. Abushahba, S. Helmy, M. Alkuwari, B. Albizreh (Doha, QA)</i>	

<p>Saved by an atrial septal defect (ASD): massive pericardial effusion, yet no tamponade? the role of echocardiography and multimodality imaging in the evaluation of a complex scenario</p> <p><i>J. Sousa, F.V. Mendonca, J.P. Monteiro, M. Neto, R. Rodrigues, S. Gomes, A. Pereira, A.P. Faria, N. Santos, M.G. Serrao, B. Silva, G. Caires, E.R. Pereira, D.H. Pereira, A.D. Freitas (Funchal, PT)</i></p>	P1444
<p>Pulmonary artery-pulmonary vein communication (PAPVC): 2 characteristic cases of an entity with a broad spectrum of different types</p> <p><i>P. Zaglavira, F. Aivalioti, S. Panta, D. Giannopoulos, N. Giannakopoulos, S. Kalogirou, Z. Karamigou, S. Limperi (Athens, GR)</i></p>	P1445
<p>Association between ostium secundum and sinus venosus atrial septal defect. Report of two cases.</p> <p><i>A. Lorente Ros, J.M. Abellas Sequeiros, J.M. Vieitez Florez, A. Marco Del Castillo, M. Plaza Martin, C. Santoro, E. Ortega, A. Garcia, A. Gonzalez, E. Casas Rojo, J.J. Jimenez Nacher, A. Esteban, R. Hinojar Baydes, J.L. Zamorano Gomez, C. Fernandez Golfín (Madrid, ES)</i></p>	P1446
<p>Case report of an young adult with a rare undiagnosed case of complex congenital heart disease</p> <p><i>M. Narciso, I. Puggia, R. Piazza, R. Pecoraro, E. Leiballi, V. Leonelli, G. Bragantini, C. Sandrini, S. Hoxha, G.B. Luciani, F. Ederle, M. Cuman, M. Pilati, G. Bernardi (Pordenone and Verona, IT)</i></p>	P1448
<p>Atypical manifestation of cardiovascular complications in patients with Turner syndrome - 2 case reports.</p> <p><i>V. Stara, T. Adla, J. Lebl (Prague, CZ)</i></p>	P1449

14:00 - 18:00

POSTER SESSION

POSTER AREA

Poster session 5

All posters are on display from 14:00 to 18:00.

From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography: Dimensions, Volumes and Mass

Left atrium morphological changes as early predictor of trastuzumab cardiotoxicity P1450
M. Dal Porto, C. Bergamini, L. F. Cerrito, G. Benfari, G. Dolci, E. Setti, A. Comunello, A. Rossi, L. Carbognin, E. Fiorio, F.L. Ribichini (Verona, IT)

Aortic elasticity properties after stent implantation of patients with aortic coarctation P1451
F. A. Pac, D. Eris, S. Koca, M. M. Zabun (Ankara, TR)

Changes in cardiac morphology and function after normalization of plasma volume in untrained individuals exposed to 10 weeks of supervised endurance training P1452
A.W. Bjerring, Ø. Skattebo, M. Auensen, K.H. Haugaa, J. Hallen, C. Capelli, T. Edvardsen, S.I. Sarvari (Oslo, NO)

Validation study of upper limit of normal values for proximal aortic diameters in patients with thoracic aortic disease P1453
L. Campens, A. Lips, K. De Groote, L. Demulier, J. De Backer (Ghent, BE)

Aortic root dimensions in adolescent athletes P1454
K. Yiangou, A. Malhotra, M. Papadakis, M. T. Esteban Tome, S. Sharma (Nicosia, CY; London, GB)

Consolidating the role of left atrium volume as a simple predictor of cardiotoxicity P1456
L.F. Cerrito, C. Bergamini, M. Dal Porto, G. Benfari, G. Dolci, E. Setti, A. Comunello, A. Rossi, L. Carbognin, E. Fiorio, F.L. Ribichini (Verona, IT)

Right atrium volume index and stress induced right ventricle diastolic dysfunction in non-severe chronic obstructive pulmonary disease patients P1457
Z.H. Cherneva, M.G. Gospodinova, S.D. Denchev, R.C.H. Cherneva (Sofia, BG)

Heart in sickle cell-beta thalassemia: echocardiographic appearance of an extremely rare disease P1458
G. Malanchini, E. Gherbesi, M. Squillace, C. Gobbi, M. Schiavone, L. Diehl, P. Perolo, G. Graziadei, M. Giuditta, F. B. Sozzi, F. Lombardi (Milan, IT)

Alterations in left atrial parameters associated with cardioembolic stroke and embolic stroke of undetermined source P1459
A. Ferkh, E. O'keefe, A. Evans, S. Duma, A. Duggins, P. Brown, S. Sivapathan, G. Gan, A. Thiagalingam, M. Altman, J. Chong, A.R. Denniss, E. Kizana, L. Thomas (Sydney, AU)

Echocardiography: Systolic and Diastolic Function

Pure aging change of diastolic function of the heart, a report from New Guinea P1460
A. Isotani, M. Fujisawa, A. Ishida, E. Garcia Del Saz, M. Indrajaya, Y. Kimura, K. Okumiya, A.L. Rantetampang, M. Ferry Kareth, T. Wada, K. Ando, R. Sakamoto, K. Matsubayashi (Kitakyushu, Kyoto, Nakagami-gun, Kochi and Osaka, JP; Wamena and Jayapura, ID)

Impact of new recommendations on non-invasive evaluation of left ventricular diastolic function in oncologic patients P1461
R. Sorrentino, L. La Mura, A. Vaccaro, M. Scalamogna, L. Esposito, G. Arpino, R. Esposito, B. Trimarco, M. Galderisi (Naples, IT)

Noninvasive left ventricular myocardial work: The effect of age and gender P1462
I. Armenis, E. Demerouti, G. Athanassopoulos (Piraeus Greece, GR)

Influence of race in the cardiac phenotype on professional footballers P1463
M. R. Lourenco, F. Castro, P. Von Hafe, B. Faria, I. Nogueira, O. Azevedo, A. Lourenco (Guimaraes, PT)

Incremental value of myocardial work over global longitudinal strain for the diagnosis of oncotherapy-related cardiotoxicity P1464
W. Kosmala, T. Negishi, P. Thavendiranathan, J. Lemieux, M. Penicka, S. Aakhus, G.Y. Cho, K. Hristova, B.A. Popescu, D. Vinereanu, S. Miyazaki, K. Kurosawa, M. Izumo, K. Negishi, T.H. Marwick (Wroclaw, PL; Hobart and Melbourne, AU; Toronto and Quebec, CA; Aalst, BE; Oslo, NO; Seoul, KR; Sofia, BG; Bucharest, RO; Tokyo, Gunma and Kawasaki, JP)

Echocardiography in the emergency department: negative predictive value to rule out left ventricular dysfunction <i>P. Guardia Martinez, M.I. Navarrete Espinosa, A.L. Aviles Toscano (Malaga, ES)</i>	P1465
Deterioration in the mechanics of left ventricular diastolic filling one year after coronary artery bypass grafting <i>J. Norderfeldt, M. G. Sundqvist, M. Corbascio, C. Linde, H. E. Persson, E. Maret, M. Eriksson, M. Ugander (Stockholm, SE)</i>	P1466
Impact of transcatheter aortic valve replacement on left ventricular diastolic function <i>F. Velasquez, L. Sanchis Ruiz, A. Regueiro, R. Andrea, C. Falces, B. Vidal, X. Freixa, S. Brugaletta, M. Sabate, M. Sitges (Barcelona, ES)</i>	P1467
The impact of diastolic impairment on exercise capacity following ST-Elevation Myocardial Infarction (STEMI) <i>H. Klimis, A. Ferkh, M. Altman, P. Brown, R. Zecchin, L. Thomas (Sydney, AU)</i>	P1468
Subclinical left ventricular systolic dysfunction in patients with morbid obesity referred to bariatric surgery in Western Norway - the FatWest study <i>D. Cramariuc, S. Nadirpour, J. Hjertaas, K. Matre, B.G. Nedrebo, B. Rogge, E. Gerdtts (Bergen and Haugesund, NO)</i>	P1469
Long-term survival in heart failure patients with mid-range ejection fraction in comparison to reduced and preserved ejection fraction. <i>E.E. Yakubovskaya, M.G. Poltavskaya, I.Y.U. Giverts, V.P. Sedov, M.D. Kuklina, A.L. Syrkin (Moscow, RU)</i>	P1470
A teaching intervention increases the accuracy of echocardiographic visual left ventricular ejection fraction assessment <i>S. Anilkumar, B. Albizreh, S. Adhiraja, N. Elkum, A. Salustri (Doha, QA)</i>	P1471
Echocardiography: Valve Disease	
Left atrial structural and functional remodeling following balloon mitral valvuloplasty <i>A. Samaan, K. Said, W. El Aroussy, M. Hassan, A. Hassan, M. Fawzy, M. Yacoub (Cairo and Aswan, EG)</i>	P1472
Prognostic usefulness of changes in left ventricular global longitudinal strain after transcatheter aortic valve implantation in severe aortic stenosis patients with preserved ejection fraction <i>E. Sakaguchi, A. Yamada, T. Muramatsu, Y. Kawada, N. Hoshino, M. Hoshino, K. Takada, K. Sugimoto, Y. Ozaki (Toyoake, JP)</i>	P1473
Echocardiographic comparison of early hemodynamic performance between two corevalve percutaneous prosthesis models: a single center experience. <i>A. Luque Moreno, M. Ruiz Ortiz, D. Mesa Rubio, M. Delgado Ortega, N. Paredes Hurtado, M.J. Oneto Fernandez, E. Martin Dorado, L. Carnero Montoro, J. Sanchez Fernandez, C. Ferreira Quero, M. Romero Moreno, S. Ojeda Pineda, J. Suarez De Lezo Herreros De Tejada, F. Hidalgo Lesmes, M. Pan Alvarez-Ossorio (Cordoba, ES)</i>	P1474
Relation of asymmetric aortic valve to eccentric aortic regurgitation in patients with tricuspid aortic valve <i>T.-H. Park, K. Park, Y.R. Cho, J.S. Park, M.H. Kim, Y.D. Kim, J.I. Park (Busan, KR)</i>	P1475
Is the surgical left atrial reduction alone better than maze procedure in restoring atrial contractility after rheumatic mitral valve surgery? <i>D.K. Firmansyah, A.M. Soesanto, D.A. Hanafy (Jakarta, ID)</i>	P1476
TAVI reverses the longitudinal cardiac function and cardiac phase: evaluation of atrioventricular annulus <i>T. Ota, Y. Murakami, Y. Kozuka, C. Ohshiro, T. Yamabe, K. Noguchi, K. Shishido, F. Yamanaka, S. Saito (Kamakura, JP)</i>	P1477
Estimation of inter-commissural length and area and shape of valsalva cusp in patient with aortic regurgitation by three-dimensional trans esophageal echocardiography <i>D. Murai, H. Komatsu, D. Tatsuta, T. Sato, R. Suzuki, M. Toba, K. Asakawa, Y. Dannoura, T. Makino, T. Kouya (Sapporo, JP)</i>	P1478
Is the raphe a predisposing factor for valvulopathy and/or aortopathy in bicuspid aortic valve patients? <i>M. Bellino, R. Citro, C. Baldi, G. Provenza, L. Soriente, C. Prota, R. Benvenga, F. Coglian, A. Longobardi, P. Masiello, R. Leone, A. Gigantino, S. Iesu, G. Galasso, F. Piscione (Salerno, IT)</i>	P1479

New cases of aortic insufficiency after coronary angiography	P1480
<i>D.S. Lira, D.R. Tiezzi, T.M.S. Terra, C. Machado, S. Zurba, G. De Rossi, W. Nadruz Jr, J. R. M. Souza (Campinas, BR)</i>	
Detailed point-of-care echocardiographic screening for left-sided valve heart disease using a hand-held scanner: Results from an elderly cohort recruited in primary practice	P1481
<i>C. Williams, A. Mateescu, E. Rees, K. Truman, C. Elliott, B. Bahlay, A. Wallis, A. Ionescu (Carmarthen and Swansea, GB; Bucharest, RO)</i>	
Dilated left atrium and significant tricuspid regurgitation as predictors of postoperative atrial fibrillation after isolated surgical aortic valve replacement	P1482
<i>A.C. Iliescu, M. Floria, D.L. Salaru, I. Achitei, M. Grecu, G.R. Tinica (Iasi, RO)</i>	
Pulmonary hypertension in severe aortic stenosis: is valvular intervention too late?	P1483
<i>M. Saraiva, M.J. Vieira, N. Craveiro, K. Domingues, L. Marta, M.L. Pitta, M. Leal (Santarem, PT)</i>	
Prognostic role of secondary mitral regurgitation in patients with aortic valve stenosis under medical management.	P1484
<i>G. Benfari, C. Maffei, G. Vinco, F. Onorati, R.M. Inciardi, S. Nistri, F.L. Ribichini, A. Rossi (Verona and Altavilla Vicentina, IT)</i>	
A research of influential factors upon phase changes of aortic valve annulus cross sectional area and ring morphology within cardiac cycle	P1485
<i>H. Komatsu, D. Murai, D. Tatsuta, T. Sato, R. Suzuki, M. Toba, K. Asakawa, Y. Dannnoura, T. Makino, T. Kouya (Sapporo, JP)</i>	
Influence of successful reduction of mitral regurgitation on left ventricular function after interventional edge-to-edge repair of functional mitral regurgitation.	P1486
<i>M.D.W. Von Roeder, S. Blazek, K.P. Rommel, C. Besler, K. Fengler, J. Seeburger, T. Noack, H. Thiele, P. Lurz (Leipzig, DE)</i>	
Clinical outcome and predictors of in-hospital mortality among patients with infective endocarditis at the heart center	P1487
<i>E.M. Yap, R. Cuenza, R. Medrano, M. Ecarma (Quezon City, PH)</i>	
Contrast Echocardiography	
LV stroke volume measurement using 2D and 3D contrast echocardiography: comparison with Doppler measurements	P1488
<i>M. Choy, A. Durand, V. Sarban, H. Kalashyan, E. Mirhadi, J. Choy, H. Becher (Edmonton, CA)</i>	
Intraventricular flow patterns after percutaneous mitral valve repair with MitraClip implantation in patients with functional MR	P1489
<i>D. Filomena, S. Cimino, V. Maestrini, D. Cantisani, V. Petronilli, M. Sannino, G. La Vecchia, M. Mancone, G. Sardella, C. Iacoboni, L. Agati (Rome, IT)</i>	
Bolus technique for ultrasound enhancing agents without saline flush	P1490
<i>M. Choy, E. Mirhadi, J. Choy, H. Becher (Edmonton, CA)</i>	
Contrast echocardiography and global longitudinal strain as markers of coronary and myocardial reserve in patients with coronary artery disease	P1491
<i>D. Mrikaev, E.Z. Golukhova, T.V. Mashina, V.S. Dzhanketova (Moscow, RU)</i>	
Tissue Doppler, Speckle Tracking and Strain Imaging	
The effect of smoking on right atrial volume and phasic functions in healthy subjects	P1492
<i>B. Ozben Sadic, O. Can Bostan, T. Bayram, M. Sunbul, A. Cincin, K. Tigen, N. Sayar, B. Kanar, H. Ozdil, E. Eryuksel (Istanbul, TR)</i>	
Right ventricular deformation analysis after cardiac transplantation: can we predict functional recovery?	P1493
<i>L. Halmai, S. Kaul, O. Dar, N. Banner, S. Rahman Haley (Milton Keynes and London, GB)</i>	
Mechanical deformation in idiopathic dilated cardiomyopathy with and without left bundle branch block	P1494
<i>W. Hamed, H.M. Badran, A.A. Emara, M. Fathey (Shebin El-kom, EG)</i>	

Left ventricular regional longitudinal strain in patients with severe aortic stenosis; a speckle tracking echocardiography study	P1495
<i>P. Kostakou, V. Kostopoulos, E. Tryfou, V. Giannaris, C.H. Olympios, N. Kouris (Athens, GR)</i>	
Effects of lower body elastic compression garment on left ventricular rotational mechanics in lipedema - A three- dimensional speckle-tracking echocardiographic study	P1496
<i>A. Nemes, A. Kormanyos, P. Domsik, A. Kalapos, L. Kemeny, T. Forster, G. Szolnoky (Szeged, HU)</i>	
Left auricular strain: a new marker of left ventricular diastolic dysfunction	P1497
<i>C. Mas Llado, M.F. Ramis Barcelo, A. Rodriguez, P. Pericas, J. Maristany, M. Noris, R. Gonzalez, L. Pasamar, V. Peral, J.F. Forteza (Palma de Mallorca, ES)</i>	
The evaluation of right atrial and ventricular functions by speckle tracking echocardiography in patients with nonmassive acute pulmonary embolism	P1498
<i>B. Ozben Sadic, T. Bayram, O. Can Bostan, M. Sunbul, N. Sayar, K. Tigen, E. Gurel, A. Cincin, H. Ozdil, B. Kanar, E. Eryuksel (Istanbul, TR)</i>	
Cardiac involvement in patients with cystic fibrosis: correlation between right ventricular systolic function and lungs function tests	P1499
<i>M. Oliveira, C. Amaro, S. Goncalves, R. Vaz, S. Silva, L. Santos, P. Santos, A. Mauricio, F. Ribeiro, J. Agostinho, T. Leal, A. Almeida, F. Pinto (Lisbon, PT)</i>	
Significance of 2d strain during dobutamine stressecho in hypertensive patients	P1500
<i>S. Stojacic, A. Ilic, A. Stojacic-Milosavljevic, D. Grkovic, S. Tadic (Sremska Kamenica, RS)</i>	
Assessment of global longitudinal strain and post-systolic shortening in asymptomatic hypertensive patients by speckle tracking	P1501
<i>S. Zurba, D.R. Tiezzi, T.M.S. Terra, C. Machado, D.S. Lira, G. De Rossi, W. Nadruz Jr, J. R. M. Souza (Campinas, BR)</i>	
The detection of coronary microvascular disease by means of two-dimensional speckle-tracking echocardiography	P1502
<i>O. M. Galuszka, D. Steffens, J. Friebe, U. Rauch-Krohnert, U. Landmesser, M. Kasner (Berlin, DE)</i>	
Improvement of mitral annular displacement and its impact on patients with severe aortic stenosis after transcatheter aortic valve implantation: a philippine experience	P1503
<i>A. Cordero, A.K. Tiu, R. Mambulao, M. Loquias, S.A. Locnen, O. Valencia, F.E. Posas (Taguig, PH)</i>	
Right ventricular strain and volumes comparison between mitral valve repair vs replacement operated for s mitral regurgitation, in patients with normal 3-dimensional ejection fraction	P1504
<i>J. Grapsa, C. Ramalhao, S. Suhail, S. Adigopula, L. Geraldles, T. Mihaljevic, R. Suri, E.M. Tuzcu (Cleveland, US; Abu Dhabi, AE)</i>	
Changes in myocardial mechanics and tachycardia mediated cardiomyopathy	P1505
<i>S. Trivedi, L. Thomas, S. Kumar (Sydney, AU)</i>	
Left atrium remodelling and BNP levels after mitralclip therapy	P1506
<i>R. Ilhao Moreira, L. Moura Branco, L. Moraes, F. Ferreira, T. Mano, A. Goncalves, T. Mendonca, I. Rodrigues, P. Modas Daniel, S. Aguiar Rosa, P. Rio, J. Abreu, A. Galrinho, D. Cacula, R. Cruz Ferreira (Lisbon, PT)</i>	
Utility of evaluation of Left atrial reservoir strain and time to peak longitudinal strain by 2d speckle tracking in patients with atrial fibrillation and high risk of cardiac embolism.	P1507
<i>J. Moreno, P. Torres, J. Zuniga (Guadalajara, MX)</i>	
Myocardial and vascular function in HCV related liver cirrhotic patients treated with direct antiviral agent (DAA)	P1508
<i>G. Novo, C. Nugara, F.P. Guarneri, F.P. Macaione, T. Guarino, S. Novo, A. Licata (Palermo, IT)</i>	
Evaluation of quick load variations on impaired right and left systolic function under extracorporeal membrane oxygenation by echocardiography	P1509
<i>N. Ouazani, C. Hill, J. Boyd, Y. Shudo, J. Teuteberg (Palo Alto, US)</i>	

Evaluation of left and right atrial dysfunction in patients with atrial fibrillation using a novel three-dimensional speckle tracking echocardiographic system	P1510
<i>K. Sakata, J. Ito, A. Isaka, H. Mitsuda, T. Minamishima, M. Furuya, K. Matsushita, T. Satoh, K. Soejima, H. Yoshino (Tokyo, JP)</i>	
Evaluation of left ventricular performance in hypertensive patients by speckle tracking echocardiography: correlation with brain natriuretic peptide	P1511
<i>W. Hamed, M.F. Noamany, A.M. Kamal, M.A. Soliman, M. Abdel Raouf (Shebin El-kom, EG)</i>	
Importance of left ventricular global longitudinal strain in cocaine abuse patients with heart failure.	P1512
<i>N. Sen, S.O.N.A.L. Tanwar, A.S.H.O.K. Jain, R. K. Gokhroo (Jaipur and Ajmer, IN)</i>	
Global longitudinal left ventricular strain as a predictor of left atrial ejection fraction	P1513
<i>J. Ker (Pretoria, ZA)</i>	
Subclinical involvement of the heart and its associated factors in patients with sarcoidosis with normal systolic function using 2D-speckle tracking	P1514
<i>F. Bayat, A. Fahimi, M. Khani, A.S. Karimi (Tehran and tehran, IR)</i>	
3D Echocardiography	
Quantification of stroke volume by three-dimensional echocardiography in patients with severe aortic stenosis. Any involvement regarding the classification according to the flow?	P1515
<i>C. Santoro, R. Hinojar, A. Marco Del Castillo, A. Gonzalez-Gomez, A. Garcia, L. Salido, E. Ortega, M. Abellas, J.J. Jimenez-Nacher, R. Hernandez Antolin, J.L. Zamorano Gomez, C. Fernandez-Golfín (Madrid, ES)</i>	
Direct quantification of aortic regurgitation by using a flow quantification software with 3-Dimensional color doppler echocardiography	P1516
<i>J.M. Song, K.S. Lee, D.H. Yang, T.Y. Ha, Y.J. Kim, J.W. Kang, S.A. Lee, S. Lee, D.H. Kang, J.K. Song (Seoul, KR)</i>	
In patients with functional tricuspid regurgitation due to atrial fibrillation, right atrial three-dimensional volume is the most important determinant of tricuspid annulus dilation	P1517
<i>A.C. Guta, R.C. Ochoa-Jimenez, P. Aruta, D. Genovese, K. Nguyen, G. Sammarco, V. Guida, R. Tenaglia, C. Palermo, R. Enache, D. Bartos, S. Illiceto, L. Badano, D. Muraru (Bucharest, RO; New York, US; Padua, IT)</i>	
Right ventricular remodelling in CHD-PAH patients using 3D speckle tracking	P1518
<i>P. Mocerì, N. Duchateau, N. Dursent, X. Iriart, S. Hascoet, D. Baudouy, E. Ferrari, M. Sermesant (Nice, Lyon, Bordeaux-Pessac, Le Plessis Robinson and Sophia-Antipolis, FR)</i>	
Left Ventricular Longitudinal 3D strain: a surrogate of fibrosis in hypertrophic cardiomyopathy?	P1519
<i>M. J. Nobre De Matos Pereira Vieira, M. Carrington, L. Reis, R. Teixeira, A. Goncalves, L. Goncalves (Santarém, Evora, Coimbra and Porto, PT)</i>	
Percutaneous closure of left atrial appendage: the role of real time 3d transesophageal echocardiography in 90 procedures	P1520
<i>L. Lanzoni, G. Molon, G. Canali, S. Bonapace, A. Chiampan, C. Dugo, A. Cecchetto, E. Barbieri (Negrar-Verona, IT)</i>	
Segmental analysis of the left ventricle by 3D-speckle tracking in cellular rejection after heart transplantation	P1521
<i>B. Schulze, B. Fujita, K.T. Puhlmann, U. Schulz, J. Gummert, L. Paluszkiwicz (Bad Oeynhausen, DE)</i>	
Left heart study based on left atrial and left ventricle three-dimensional speckle tracking deformation in hypertrophic cardiomyopathy and hypertrophic cardiomyopathy genotype positive and fenotype	P1522
<i>G. Esposito, P. Piras, A. Evangelista, L. Teresi, P.E. Puddu, C. Torromeo (Rome, IT)</i>	
Biatrrial remodelling in atrial fibrillation: evolution of three-dimensional volume according to rhythm outcome at 6- month follow-up	P1523
<i>L. Soulat-Dufour, S. Lang, S. Ederhy, Y. Ancedy, A. Beraud, S. Adavane-Scheuble, M. Chauvet-Droit, N. Hammoudi, P. Nhan, M. Charbonnier, F. Boccara, A. Cohen (Paris, Toulouse and PARIS, FR)</i>	
A real-time 3 dimensional transesophageal echocardiographic assessment and surgical treatment of discrete subaortic stenosis	P1524
<i>A. Furugen, H.D. Doi (Sapporo, JP)</i>	

Echocardiography, Other

Worsening pulmonary hypertension after chemotherapy was associated	P1525
<i>H.J. Yoon, H.Y. Kim, H.J. Park, J.Y. Cho, K.H. Kim, J.C. Park (Gwangju, KR)</i>	
Right atrial mechanics in pulmonary hypertension: the right prognostic marker?	P1526
<i>P. Alves, V. Marinho, C. Domingues, R. Baptista, G. Castro, L. Goncalves (Coimbra, PT)</i>	
Changes in pulmonary artery pressure in haemodialysis patients after arteriovenous fistula flow reduction	P1527
<i>A. Valerianova, L. Kovarova, L. Hruskova, V. Bednarova, V. Tuka, P. Trachta, J. Malik (Prague, CZ)</i>	
Abnormal endothelial glycocalyx is related to impaired arterial elasticity, contributing to severity of decompensation, diastolic dysfunction and the rehospitalisation in acute heart failure	P1528
<i>I. Ikonomidis, D. Vlastos, G. Kostelli, G. Bakosis, V. Bistola, J. Parissis, N. Cholevas, S. Vlachos, D. Benas, M. Varoudi, H. Triantafyllidi, J. Lekakis, E. Iliodromitis (Athens, GR)</i>	
Aortic root remodeling and invasively-measured central pulse pressure	P1529
<i>A. Milan, A. Guala, D. Leone, M. Bollati, L. Sabia, F. D'ascenzo, C. Moretti, F. Veglio, L. Ridolfi, F. Tosello (Torino and Turin, IT)</i>	
A comparison of right ventricular function between before and after left ventricular assist device implantation: assessment by right ventricular pressure volume curve	P1530
<i>E. Kanemaru, K. Yoshitani, S. Kato, Y. Inatomi, Y. Ohnishi (Yokohama and Suita, Osaka, JP)</i>	
Diastolic eccentricity index is most important in determining the severity of pulmonary embolism	P1531
<i>S.C. Efe, Y. Yuksel, S. Guven, B. Ayca, T. Karabag (Istanbul, TR)</i>	
A novel echocardiographic method for quantitative estimation of pulmonary artery wedge pressure and pulmonary vascular resistance	P1532
<i>V. Chubuchny, A. Giannoni, E. Pasanisi, C. Petersen, V. Spini, A. Barison, C. Taddei, E. Poggianti, N.R. Pugliese, B. Formichi, E. Airo, M. Ciardetti, M. Coceani, M. Emdin (Pisa, IT)</i>	
Ventriculo-arterial coupling in patients with acute pulmonary edema and preserved ejection fraction	P1533
<i>A. E. Vijilic, C. Neagu, M. Dorobantu (Bucharest, RO)</i>	
Bicuspid aortic valve disease - is there any association with neoplasia?	P1534
<i>J. Rigueira, A. Nunes-Ferreira, I. Aguiar-Ricardo, I. Santos-Goncalves, J. Agostinho, R. Santos, R. Placido, C. David, F. J. Pinto, A. G. Almeida (Lisbon, PT)</i>	
Prognostic value of echocardiography in systemic sclerosis: the right heart and pulmonary circulation matter	P1535
<i>L. Gargani, C. Bruni, A. Moreo, B. De Chiara, L. Belloli, F. Casadei, S. Guiducci, O.M. Epis, E. Bossone, M. Matucci-Cerinic (Pisa, Florence, Milan and Naples, IT)</i>	
Echocardiographic assessment of Takotsubo syndrome female rat model induced by isoprenaline	P1536
<i>S. Borodzicz, R. Glowczynska, K. Czarzasta, M. Wojciechowska, A. Kolodzinska, G. Opoliski, A. Cudnoch-Jedrzejewska (Warsaw, PL)</i>	
Parameters of ventricular-arterial coupling are associated with NTproBNP and atrial geometry in patients with decompensated heart failure	P1537
<i>O. Lukina, A. Soloveva, I. Meray, S. Villevalde, Z. Kobalava (moscow, RU)</i>	
Abnormal coronary flow during transthoracic echocardiography reveals high-risk patients amongst groups without signs of CAD	P1538
<i>A. Zagatina, N. Zhuravskaya, O. Guseva, E. Kalinina, D. Shmatov (Saint Petersburg and St. Petersburg, RU)</i>	
A monocentric echocardiographic study on Ehlers-Danlos syndrome	P1539
<i>M. Squillace, G. Malanchini, E. Gherbesi, F.B. Sozzi, C. Gobbi, M. Schiavone, R. Meazza, M. Strata, P. Perolo, L.M.C. Diehl, F. Lombardi (Milan, IT)</i>	

Cardiac Magnetic Resonance

3D cine kat-ARC single breath hold versus 2D cine bSSFP multi breath hold for function evaluation and biventricular volumes	P1540
<i>G. Muscogiuri, A. Baggiano, M. Gatti, S. Pica, M. Guglielmo, A.I. Guaricci, D. Andreini, S. Mushtaq, E. Conte, A.D. Annoni, A. Formenti, M.E. Mancini, M. Pepi, G. Pontone (Milan and San Donato Milanese, IT)</i>	
Clinical differences between extended and pure apical HCM	P1541
<i>H.Y. Kim, K.K.H. Kim, S.C. L.E.E. Lee (Gwangju and Seoul, KR)</i>	
Fractal analysis in left ventricular noncompaction	P1542
<i>G. Casas, J.F. Rodriguez-Palomares, G. Oristrell, M. Borregan, J. Limeres, L. Gutierrez, G. Teixido, L. Galian, M.T. Gonzalez-Alujas, R. Fernandez-Galera, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)</i>	
Prognostic impact of right ventricle volumes measured by cardiac magnetic resonance in patients with significant tricuspid regurgitation	P1543
<i>S. Hernandez Jimenez, R. Hinojar Baydes, A. Gonzalez-Gomez, A. Esteban-Peris, M.A. Fernandez- Mendez, A. Pascual Izco, A. Marco Del Castillo, J.M. Monteagudo Ruiz, M. Plaza Martin, J. Ramos Jimenez, M. Valverde Gomez, C. Lozano Granero, J.J. Jimenez Nacher, J.L. Zamorano Gomez, C. Fernandez-Golfin (Madrid, ES)</i>	
Cardiovascular magnetic resonance imaging feature tracking: impact of training on observer performance and reproducibility	P1544
<i>S.J. Backhaus, G. Metschies, M. Billing, J.T. Kowallick, R. Gertz, T. Lapinskas, B. Pieske, J. Lotz, B. Bigalke, S. Kutty, G. Hasenfus, P. Beerbaum, S. Kelle, A. Schuster (Göttingen, Berlin and Hannover, DE; Omaha, US; Sydney, AU)</i>	
Biventricular strain in myocarditis with feature-tracking cardiac magnetic resonance	P1545
<i>R.A. Guerreiro, J. Carvalho, B. Picarra, A.R. Santos, K. Congo, J. Pais, D. Bras, M. Carrington, A. Caeiro, J. Aguiar (Evora, PT)</i>	
Effectiveness of extracorporeal shockwave myocardial revascularization therapy in stable angina patients using a cardiac magnetic resonance feature tracking technique	P1546
<i>A. Rimkus, G. Burneikaite, S. Glaveckaite, J. Celutkiene, D. Palionis, N. Valeviciene, A. Laucevicius (Vilnius, LT)</i>	
Myocardial mechanics in asymptomatic patients with left bundle branch block and preserved ejection fraction studied by CMR feature tracking	P1547
<i>B. Berlot, A. Scatteia, A. Barittusio, A. Palazzuoli, C. Bucciarelli-Ducci (Bristol, GB; Naples, Padua and Siena, IT)</i>	
The role of tissue-tracking cardiac magnetic resonance in early assessment of left ventricular dysfunction in patients with myocarditis and myocardial infarction	P1548
<i>S. Doimo, F. Ricci, N. Aung, J. Cooper, R. Boubertakh, M.M. Sanghvi, G. Sinagra, S.E. Petersen (Trieste and Chieti, IT; London, GB)</i>	
Intervendor comparison of cardiac MRI feature tracking global longitudinal strain in patients with aortic stenosis	P1549
<i>H. Elzomor, S. Ahmed, M. Fukui, J.L. Cavalcante (Pittsburgh, US)</i>	
Abnormal flow pattern in the proximal descending aorta in Marfan patients by 4D flow MRI: impact of aortic geometrical characteristics	P1550
<i>A. Guala, L. Dux-Santoy, J.F. Rodriguez-Palomares, A. Ruiz-Munoz, I. Dentamaro, N. Villalva, R. Fernandez, F. Valente, L. Gutierrez, L. Galian, D. Garcia-Dorado, A. Evangelista, G. Teixido- Tura (Barcelona, ES)</i>	
Deep learning for automated scar segmentation in CMR-LGE images	P1551
<i>S. Moccia, R. Banali, G. Muscogiuri, C. Martini, G. Pontone, M. Pepi, E.G. Caiani (Milan and Parma, IT)</i>	
Cardiac magnetic resonance imaging with late gadolinium enhancement in acute myocarditis: toward the differentiation of immune-mediated and viral etiologies	P1552
<i>S. Brun, F. Sebai, A. Petermann, D. Ribes, G. Prevot, E. Cariou, Y. Lavie-Badie, H. Rousseau, M. Galinier, D. Carrie, G. Pugnet, O. Lairez (Toulouse, FR)</i>	
Impact of left ventricular myocardial fibrosis on postoperative morbidity following mitral valve surgery in rheumatic mitral stenosis	P1553
<i>T.M.H. Putra, D.R. Desandri, R. Sukmawan, C.A. Atmadikoesoemah, E. Sahara, M. Kasim (Jakarta, ID)</i>	

Focal scar and diffuse myocardial fibrosis in patients with history of repaired tetralogy of Fallot	P1554
<i>X. Iriart, H. Cochet, A. Allain-Nicolai, C. Camaioni, S. Sridi, E. Fournier, M.L. Dinét, Z. Jalal, F. Laurent, M.L. Montaudon, J.B. Thambo (Bordeaux-Pessac and pessac, FR)</i>	
Fibrosis and sustained ventricular arrhythmia in idiopathic cardiomyopathy with severe left ventricular systolic dysfunction: role of CMR in selecting patients for defibrillator implantation	P1555
<i>A. Travieso Gonzalez, T. Luque, F. Islas, J. Palacios-Rubio, M. Luaces, J. Arrazola, C. Olmos (Madrid, ES)</i>	
Comparison of signal intensity ratio and transmural ratio between a novel late gadolinium enhancement and standard late gadolinium enhancement sequences in patients with ischemic heart disease	P1556
<i>G. Muscogiuri, A. Baggiano, M. Gatti, S. Dell'aversana, M. Guglielmo, A.I. Guaricci, D. Andreini, S. Mushtaq, E. Conte, A.D. Annoni, A. Formenti, M.E. Mancini, M. Pepi, G. Pontone (Milan, IT)</i>	
Prevalence and pattern of left ventricular late gadolinium enhancement on cardiac magnetic resonance in patients with arrhythmogenic right ventricular dysplasia.	P1557
<i>L. Bocquillon, A. Nguyen, A. Petermann, A. Rollin, M. Galinier, D. Carrie, H. Rousseau, P. Maury, O. Lairez (Toulouse, FR)</i>	
Hungarian cardiac magnetic resonance registry of patients with malignant ventricular arrhythmias and normal coronary arteries	P1558
<i>H. Vago, L. Szabo, C.S. Czibalmos, Z.S. Dohy, I. Csecs, A. Toth, V. Juhasz, F.I. Suhai, T. Simor, D. Becker, B. Merkely (Budapest and Pecs, HU)</i>	
Diffuse myocardial fibrosis is associated with reduced ventricular function, but not with left bundle branch block	P1559
<i>C. Kjellstad Larsen, J. Aalen, P.A. Sirnes, K. Melberg, O.A. Smiseth, E. Hopp (Oslo and Moss, NO)</i>	
Soluble ST2/mass index correlates with native T1 mapping value in 3T cardiac magnetic resonance in dilated cardiomyopathy patients	P1560
<i>S. Y. Lee, S. H. Lee, Y. H. Park (Yangsan, KR)</i>	
Usefulness of cardiac magnetic resonance for the differential diagnosis of acute heart conditions mimicking myocardial infarction	P1561
<i>R. Diaz Navarro, D. Silva (VIÑA DEL MAR, CL)</i>	
The diagnostic and prognostic value of cardiac magnetic resonance imaging in myocardial infarction with non-obstructive coronary arteries (MINOCA)	P1562
<i>A.R. Pereira, A.R. Almeida, I. Cruz, A. Marques, S. Alegria, A.C. Gomes, A. Briosas, D. Sebaiti, L.R. Lopes, M. Ramalho, H. Pereira (Almada, PT; London, GB)</i>	
Cross-Modality and Multi-Modality Imaging Topics	
Right ventricular to pulmonary circulation uncoupling is associated with reduced stroke volume reserve and worse exercise performance in patients with heart failure	P1563
<i>A. Giammarresi, M. Losito, V. Labate, M. Caracciolo, F. Bandera, M. Rovida, F. Bevilacqua, E. Alfonzetti, M. Guazzi (San Donato Milanese, IT)</i>	
Phenotyping right ventricular contractile reserve in patients with heart failure with preserved ejection fraction of different etiology	P1564
<i>V. Labate, F. Bandera, M. Barletta, A. Giammarresi, M. Guazzi (San Donato Milanese, IT)</i>	
The impact of flow-tissue interaction in heart failure patients during biventricular pacing: a particle image velocimetry and speckle tracking acute study	P1565
<i>A. R. Martiniello, V. Bianchi, G. Pedrizzetti, G. Tonti, C. Cioppa, M. Cavallaro, V. Tavoletta, V.M. Caso, A. D'onofrio, P. Caso (Naples, Trieste and Chieti, IT)</i>	
Mitral effective regurgitant orifice area in acute decompensated heart failure: clinical correlates and mid-term prognostic implication.	P1566
<i>F. Bulian, A. Rossi, C. Bergamini, C. Maffei, G. Benfari, A. Giammarresi, M. Ciccoira (Verona, IT)</i>	
Prognostic significance and pathophysiological insights of abnormal VO ₂ /WR relationship in heart failure patients	P1567
<i>A. Giammarresi, S. Boveri, F. Bandera, M. Barletta, M. Guazzi (San Donato Milanese, IT)</i>	

PRACTICAL TUTORIALS	WEDNESDAY SESSIONS	A comprehensive model for predicting hospitalization for heart failure in hypertrophic cardiomyopathy: a survival analysis.	P1568
		A. Cecconi, M.T. Nogales-Romo, D. Vilianni, E. Pozo, S. Veloso, C. Jimenez-Mendez, E. Gonzalez-Bartol, A. Rojas-Gonzalez, L. Dominguez-Arganda, G. Diego-Nieto, S. Hernandez Muniz, M.J. Olivera, P. Caballero, L.J. Jimenez-Borreguero, F. Alfonso (Madrid, ES)	
WEDNESDAY POSTERS	WEDNESDAY POSTERS	Longer-term (>12 months) follow-up after catheter-based edge-to-edge-repair of secondary mitral regurgitation (sMR) in heart failure (HF) patients with advanced dilated cardiomyopathy (DCM)	P1569
		L. Faber, W. Scholtz, N. Bogunovic, J. Boergermann, J. Gummert, D. Horstkotte, S. Scholtz (Bad Oeynhausen, DE)	
THURSDAY SESSIONS	THURSDAY SESSIONS	Predictors of late gadolinium enhancement in hypertrophic cardiomyopathy by electrocardiogram and echocardiography	P1570
		L. Liu, W.X. Li, J. Wang, F. Yang, N. Kang, B.O. Wang, Y. Liu, L. Zuo (Xian, CN)	
THURSDAY POSTERS	THURSDAY POSTERS	Prediction of left ventricular function development in recent onset dilated cardiomyopathy based on baseline characteristics	P1571
		J. Krejci, P. Hude, E. Ozabalova, H. Poloczko, J. Godava, T. Honek, V. Zampachova, I. Svobodova, J. Jarkovsky, K. Benesova, L. Spinarova (Brno, CZ)	
FRIDAY SESSIONS	FRIDAY SESSIONS	Strain imaging and delayed enhancement by cardiac magnetic resonance for fibrosis detection and risk stratification in patients with hypertrophic cardiomyopathy: a segmental analysis	P1572
		D. Bellavia, C. Nugara, G. Novo, V. Agnese, G.D. Acquaro, G. Di Bella, G. Gentile, G. Raffa, A. Iacovoni, M. Pilato, C. Falletta, F. Clemenza (Palermo, Pisa, Messina and Bergamo, IT)	
FRIDAY POSTERS	FRIDAY POSTERS	Late gadolinium enhancement in patients with hypertrophic cardiomyopathy: correlation with phenotypic and functional heart parameters	P1573
		N. Krylova, E.A. Merzhina, V.E. Sinitsyn, N.G. Poteshkina, M.A. Balaeva, A.V. Pylev (Moscow, RU)	
SATURDAY SESSIONS	SATURDAY SESSIONS	The effect of gender difference in patients with cardiovascular disease on various vascular functional indices	P1574
		S. Nishio, K. Kusunose, Y. Hirata, Y. Torii, R. Amano, Y. Saijo, M. Bando, H. Yamada, M. Sata (Tokushima, JP)	
SATURDAY POSTERS	SATURDAY POSTERS	The Impact of transcatheter aortic valve replacement by transfemoral approach on pulse wave velocity and left ventricular mass index	P1575
		Y. Takeuchi, T. Tada, H. Sakamoto, T. Shimada (Shizuoka, JP)	

Saturday 8 December



- > Browse the most up-to-date scientific programme in the EuroEcho-Imaging Mobile App



- > Missed a session? Consult videos, slides sets, abstracts and ESC TV interviews on the NEW ESC 365
www.escardio.org/365



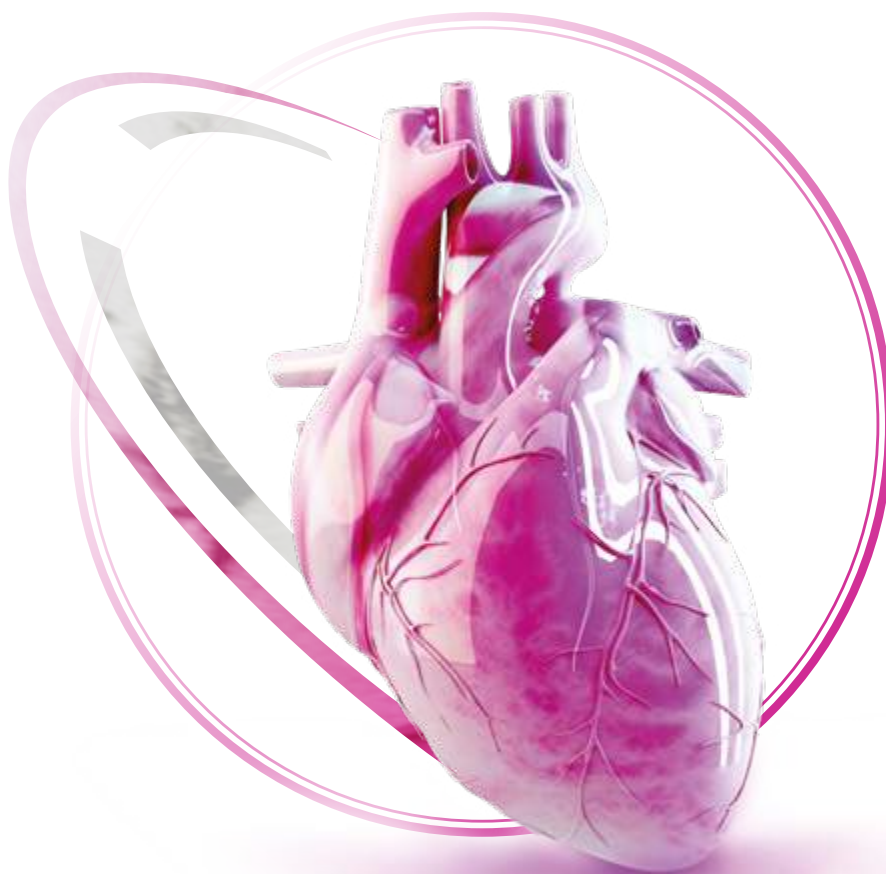
- > Tweet about your favourite sessions **#EuroEcho**



EACVI
European Association of
Cardiovascular Imaging

EuroEcho 2019

THE LEADING ECHOCARDIOGRAPHY CONGRESS



4-7
December | **Vienna**
AUSTRIA

23rd Annual Congress
of the EACVI
www.escardio.org/EACVI



ESC
European Society
of Cardiology

08:30 - 10:00 SYMPOSIUM ROME

How often have I told you? Frequent mistakes in imaging



Chairperson(s): F. Flachskampf (Uppsala, SE); L. Ernande (Paris, FR)

Mobile App - Vote and Ask a Question

This is a mobile app interactive session. Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons

- 08:30 › Frequent mistakes in using global longitudinal strain. 1576
L. Herbots (Hasselt, BE)
- 08:52 › Frequent mistakes in assessing aortic regurgitation by echo. 1577
C. West (London, GB)
- 09:15 › Frequent mistakes in assessing valvular regurgitation by magnetic resonance imaging. 1578
P. Monney (Lausanne, CH)
- 09:37 › Frequent mistakes in assessing coronary stenosis by Computed Tomography angiography. 1579
A. J. H. A. Scholte (Leiden, NL)

08:30 - 10:00 SYMPOSIUM TURIN

Indications to cardiac resynchronization therapy (CRT): a multimodality approach

HIT HOT session (Heart Imagers of Tomorrow - Heart failure specialists Of Tomorrow)

Chairperson(s): M. Cameli (Siena, IT); G. Vergaro (Pisa, IT)

- 08:30 › What do the guidelines say about the indications and contraindications for CRT? 1580
K. Keramida (Athens, GR)
- 08:45 › How to predict the clinical response to CRT: when Electrocardiogram (ECG) may fail. 1581
M. M. Gurusun (Bucharest, RO)
- 09:00 › CRT and CMR: tissue characterisation and clinical response. 1582
G. Vinco (Verona, IT)
- 09:15 › Extracardiac benefits of CRT in heart failure. 1583
G. Vergaro (Pisa, IT)
- 09:30 › Take home messages. 1584
E. Donal (Rennes, FR)

08:30 - 10:00 SYMPOSIUM NAPLES

Cardiac amyloidosis: non-invasive imaging choices and yield

Chairperson(s): B. L. M. Gerber (Woluwe-St. Lambert, BE); V. Rigolin (Chicago, US)

- 08:30 › Nuclear based techniques: advantages and pitfalls. 1585
W. Jaber (Cleveland, US)
- 08:52 › MRI: sensitivity and specificity for all patients? 1586
M. Fontana (London, GB)
- 09:15 › Echocardiography: first line for diagnosis. Is it the last line? 1587
F.B. Sozzi (Milan, IT)
- 09:37 › Amyloidosis and aortic stenosis : dangerous liaisons. 1588
P. Perrone-Filardi (Naples, IT)

08:30 - 10:00 SYMPOSIUM GENOA

Regulation of imaging devices: physicians as stakeholders**Chairperson(s): M. Cikes (Zagreb, HR); B. Cosyns (Brussels, BE)**

- 08:30 › Diagnostic imaging systems as medical devices: impact of new EU regulations on clinical practice. 1589
A. G. Fraser (Cardiff, GB)
- 08:52 › European standards for medical imaging: radiology perspective. 1590
A. Brady (Cork, IE)
- 09:15 › Improving reproducibility and inter-vendor variability-chievements of the EACVI / ASE task force with manufacturers. 1591
J. U. Voigt (Leuven, BE)
- 09:37 › Health technology assessment, registries, and evidence-based diagnostic imaging. 1592
P. Szymanski (Warszawa, PL)

08:30 - 10:00 SYMPOSIUM VENICE

3D reality and virtual reality in congenital heart disease (CHD)**Chairperson(s): F. R. Pluchinotta (San Donato Milanese, IT); K.H. Mortensen (Cambridge, GB)**

- 08:30 › Multimodality approach to imaging a complex double outlet right ventricle (DORV). 1593
K. Pushparajah (London, GB)
- 08:52 › Impact of 3D modelling on surgical outcomes. 1594
I.V. Valverde Perez (Seville, ES)
- 09:15 › 3D modelling and virtual reality modelling in single ventricle patients. 1595
P. Claus (Leuven, BE)
- 09:37 › The next big thing in virtual reality modelling in CHD. 1596
L. Mertens (Toronto, CA)

08:30 - 10:00 SPECIAL SESSION AGORA

Hightech corner session 2 - Virtual valve replacement: the next revolution**Chairperson(s): J. Lumens (Maastricht, NL); J. Gorcsan (St. Louis, US)***The session aims at providing new concepts in imaging in patients undergoing transcatheter valvular interventions. Attendees will learn how to use, interpret and make a rational therapeutic decision based on novel imaging concepts.*

- 08:30 › Virtual valve replacement: opportunities and pitfalls. 1597
P. De Jaegere (Rotterdam, NL)
- 08:46 › Discussion/Q&A.
- 08:52 › Virtual aortic valve therapy: model-based outcome prediction. 1598
L. Goubergrits (Berlin, DE)
- 09:08 › Discussion/Q&A.
- 09:14 › Virtual mitral valve therapy: how and what to implant? 1599
P.B. Bertrand (Genk, BE)
- 09:31 › Discussion/Q&A.
- 09:37 › Virtual valve repair or replacement: how to make it daily practice. 1600
P. P. T. De Jaegere (Rotterdam, NL)
- 09:54 › Discussion/Q&A.

10:00 - 11:00

SPECIAL SESSION

AGORA

Hightech corner session 3 - New concepts in imaging of surgical and transcatheter valvular interventions**Chairperson(s): E. Schwammenthal (Tel Hashomer, IL); R. S. Von Bardeleben (Mainz, DE)**

- 10:00 › Assessment of paravalvular leak after TAVI by video-densitometric quantitative angiography. 1601
O.I.I. Soliman (Rotterdam, NL)
- 10:13 › Discussion/Q&A.
- 10:15 › New concepts of imaging of transcatheter mitral valve interventions. 1602
T. Modine (Lille, FR)
- 10:28 › Discussion/Q&A.
- 10:30 › What constitute a successful tricuspid repair? New insights from imaging. 1603
K. Fattouch (Palermo, IT)
- 10:43 › Discussion/Q&A.
- 10:45 › Right ventricular outflow tract (RVOT) dysfunction and PV interventions - Role of imaging in defining success and failure. 1604
S. Kutty (Baltimore, US)
- 10:58 › Discussion/Q&A.

10:00 - 11:00

MODERATED POSTERS

MODERATED EPOSTERS 1

Clinical cases moderated - Imaging in native and prosthetic valve disease**Chairperson(s): A. A. Pasquet (Brussels, BE); V. Pergola (London, GB)**

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:30. Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.

- Near complete left ventricular outflow tract obliteration and critical aortic stenosis due to sub clinical native aortic valve endocarditis 1605
V. Pettemerides, S. Ray, P. Waterworth (Manchester, GB)
- Diagnosis and management of a sub-acute progressive prosthetic occlusion of a mechanic mitral valve in patients with recurrent prosthetic thrombosis. 1606
C. Santoro, E. Ortega, A. Lorente, M. Pascual, A. Gonzalez-Gomez, R. Hinojar, A. Garcia, J. Lopez, J. Miguélena, E. Casas, J.J. Jimenez-Nacher, J.L. Zamorano Gomez, C. Fernandez-Golfín (Madrid, ES)
- The diagnostic challenge of endocarditis in patients with ascending aortic prosthetic graft 1607
I. Bravo Martinez, N. Garcia Ibarrondo, L. Ruiz, M. Codina, A. Manzanal, G. Ramirez-Escudero, G. Aurrekoetxea, J.A. Jimenez, E. Rey, A. Ortiz De Salazar (Bilbao, ES)
- Severe right ventricular failure after right coronary artery occlusion immediately after valve-in-valve transcatheter aortic valve implantation 1608
A. Kovac, R. Zbacnik, M. Bunc, J. Ambrozic (Ljubljana, SI)
- Transcatheter implantation of Edwards Sapien 3 valve in a tricuspid annuloplasty ring 1609
B. Ren, P.P.T. De Jaegere, N.M.D.A. Van Mieghem (Rotterdam, NL)
- Massive tricuspid regurgitation during chronically implanted device lead extraction: role of intraoperative 3D transesophageal echocardiography. 1610
C. Ruisanchez Villar, S. Gonzalez Lizarbe, P. Lerena Saenz, D. Serrano Lozano, A. Sarraide Aguayo, S. Gonzalez Enriquez, V. Exposito Garcia, J.M. Cuesta Cosgaya, N. Royuela Martinez, F.J. Gonzalez Vilchez, F. Rodriguez Entem, J. Ruano Calvo, J.J. Olalla Antolin (Santander, ES)
- A case with very successful trans-catheter aortic valve implantation for improvement of symptomatic hemolytic anemia caused by stenosed apico-aortic conduit 1611
M. Hoshino, A. Yamada, T. Muramatsu, Y. Kawada, N. Hoshino, K. Takada, E. Sakaguchi, Y. Takagi, Y. Ozaki (Toyoake, JP)

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS 2

Clinical cases moderated - Clinical use of 3D echo

Chairperson(s): N. Mansencal (Boulogne-Billancourt, FR); R. Enache (Bucharest, RO)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:30. Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.

- | | |
|--|------|
| Kissing lesions and aortic mitral curtain endocarditis: the supporting role of 3D TEE. | 1612 |
| L. Lanzoni, S. Bonapace, A. Chiampan, A. Cecchetto, C. Dugo, E. Barbieri (Negrar-Verona, IT) | |
| The role of three-dimensional imaging in assessment of an adult patient with systemic right ventricle and severe tricuspid regurgitation | 1613 |
| E. Surkova, R. Senior, W. Li (London, GB) | |
| The role of 3d echocardiography in precise evaluation of aortic prosthetic valve dehiscence | 1614 |
| Z. Mladenovic, V.D. Vranes Danijea, O.S. Obradovic Slobodan, R.N. Ratkovic Nenad, J.Z. Jovic Zoran, D.P. Djuric Predrag, S.M. Spasic Marijan (Belgrade, RS) | |
| Percutaneous clousure of a large iatrogenic septal atrial laceration | 1615 |
| C. Jimenez Mendez, A. Cecconi, G. Diego, T. Alvarado, G. Navarrete, L. Dominguez, A. Rojas, A. Benedicto, T. Nogales-Romo, J. Salamanca, M. Garcia-Guimaraes, F. Rivero, L.J. Jimenez- Borreguero, F. Alfonso (Madrid, ES) | |
| Unknown left atrial appendage mass | 1616 |
| F.M. Moniz Mendonca, J.A.S. Sousa, J.M. Monteiro, M.N. Neto, S.G. Gomes, G.C. Caires, D.F. Freitas (Funchal, PT) | |
| Detection of isolated clefts of both anterior and posterior mitral leaflets by live/real time three-dimensional transesophageal echocardiography | 1617 |
| B. Uygur, M. Erturk (Istanbul, TR) | |
| The additional value of 3-D transoesophageal echocardiography in the diagnosis of unusual complication of bioprosthetic mitral valve | 1618 |
| M. Evangelista, M. Barletta, V. Mantovani, L. Delli Paoli, A. Corciu, A. Garatti, L. Testa, M. Guazzi, F. Bedogni, M. Tusa (San Donato Milanese, IT) | |

10:10 - 10:55

HOW-TO SESSION

ROME

How to prevent cardiac toxicity

Chairperson(s): C. Santoro (Naples, IT)

How-to session provides practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

- | | |
|---------------------------|------|
| 10:10 › Presenter: | 1619 |
| M. Galderisi (Naples, IT) | |

Morning Sessions

11:00 - 12:30 SPECIAL SESSION ROME

EuroEcho-Imaging 2018 highlights



Chairperson(s): B. A. Popescu (Bucharest, RO); T. Edvardsen (Oslo, NO)

- 11:00 › Heart failure. 1620
K. H. Haugaa (Oslo, NO)
- 11:15 › New technologies. 1621
D. Muraru (Padua, IT)
- 11:30 › Valvular heart disease. 1622
J.S. Dahl (Odense C, DK)
- 11:45 › Congenital heart disease. 1623
T. Bharucha (Southampton, GB)
- 12:00 › Cardiac magnetic imaging. 1624
C. Bucciarelli-Ducci (Bristol, GB)
- 12:15 › Computed tomography/Nuclear cardiology. 1625
A. Gimelli (Pisa, IT)

11:00 - 12:30 TEACHING COURSE TURIN

Standard and advanced echocardiographic evaluation in cardiomyopathies

Chairperson(s): J. Bergler-Klein (Vienna, AT); D.P. Pellerin (London, GB)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- 11:00 › Physiologic vs pathologic hypertrophy. 1626
S. Caselli (Zurich, CH)
- 11:22 › Hypertrophic cardiomyopathy. 1627
N. Cardim (Lisbon, PT)
- 11:45 › Infiltrative diseases. 1628
A. Linhart (Prague, CZ)
- 12:07 › Storage diseases. 1629
P. Lipiec (Lodz, PL)

11:00 - 12:30 SYMPOSIUM NAPLES

Difficult cases in valvular heart disease: which imaging technique helps me?

Chairperson(s): G. Tamborini (Milan, IT); P. Unger (Brussels, BE)

- 11:00 › Challenging mitral valve regurgitation. 1630
N. Ajmone Marsan (Leiden, NL)
- 11:22 › Challenging aortic stenosis. 1631
M.A. Clavel (Quebec, CA)
- 11:45 › Challenging aortic regurgitation. 1632
T. Podlesnikar (Maribor, SI)
- 12:07 › Challenging endocarditis. 1633
A. Patrianakos (Heraklion, GR)

Morning Sessions

11:00 - 12:30 SYMPOSIUM GENOA

Imaging the aorta



Joint session with the Canadian Society of Echocardiography (CSE)

Chairperson(s): L. Rudski (Cote St Luc, CA); J. F. Rodriguez Palomares (Barcelona, ES)

- 11:00 › Imaging the aorta, what are the guidelines? 1634
R. Erbel (Essen, DE)
- 11:22 › Phenotyping the bicuspid valve. 1635
F. Tournoux (Montreal, CA)
- 11:45 › Acute aortic syndrom. 1636
C.M. Chow (Toronto, CA)
- 12:07 › what the surgeon needs to know? 1637
G. El Khoury (Brussels, BE)

11:00 - 12:30 SYMPOSIUM VENICE

Coronary arteries in paediatric and congenital heart disease

Chairperson(s): D. Coleman (Dublin, IE); A. Dragulescu (Toronto, CA)

- 11:00 › Mutlimodality imaging of coronary arteries with anomalous origins. 1638
K.H. Mortensen (Cambridge, GB)
- 11:22 › Stress imaging in coronary artery abnormalities. 1639
M. Ladouceur (Paris, FR)
- 11:45 › Imaging the coronary arteries in CHD: when is it important and how to do it. 1640
L. Lopez (Palo Alto, US)
- 12:07 › Functional imaging in Kawasaki disease: when do aneurysms impact function? 1641
G. Di Salvo (London, GB)

11:00 - 12:30 CLINICAL CASES AGORA

TOE clinical cases

Chairperson(s): O. Kamp (Amsterdam, NL); S. Benyoussef (La Marsa, TN)

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience.

The main objective of the session is to learn from challenging clinical case scenarios.

- 11:00 › Panel of experts: 1642
T. Palecek (Prague, CZ); N. Liel-Cohen (Omer, IL)
- 11:00 › Spontaneous left atrial dissection presenting as atrial fibrillation 1643
E. A. Khalifa, B. Albizreh, S. Helmy, A. N. Ghareep, M. Alkuwari, A. Kindawi (Doha, QA)
- 11:09 › Refractory heart failure due to intracardiac fistulae complicating native aortic valve endocarditis 1644
K. Tsatiris, G. Deligiannis, J. Kogias (Karditsa, GR)
- 11:18 › A rare case of sub aortic membrane mimicking valvular aortic stenosis 1645
M.Y.H. Elbanna, H. Uddin, J. Britain, J. Grapsa, S. Adigopula, D. Quraini (Abu Dhabi, AE)
- 11:27 › Coronary fistula detected with transesophageal echocardiography; An unexpected cause of pulmonary hypertension and chest pain 1646
E. Erdogan (Agri, TR)

Morning Sessions

11:36 ›	A case report of Cor Triatriatum Sinistrum and persistent left superior vena cava in a patient with multi-vessel coronary artery disease <i>S. M. Gerasimenko, N. N. Ilov, F. A. Ashurov, V. I. Gerasimenko, D. R. Stompel, D. G. Tarasov, O.V. Kalmykova, A. P. Motreva, D. V. Agafonov (Astrakhan, RU)</i>	1647
11:45 ›	Partial anomalous pulmonary venous connection - a rare diagnosis in an asymptomatic adult <i>J. P. Dias Ferreira Reis, T.B. Mano, A.V. Goncalves, A. Agapito, A. Galrinho, A.V. Monteiro, L. Sousa, J.A. Oliveira, M. Antonio, F. Pinto, R. Cruz Ferreira (Lisbon, PT)</i>	1648
11:54 ›	An atypical case of interventricular septum bulging <i>V. M. Parato, M.C. Di Saverio, D. Corradini, M. Scarano (San Benedetto del Tronto, IT)</i>	1649
12:03 ›	Infective supra-aortic graft aortitis <i>T. Aktemur, C.S. Akdeniz, I.P. Canbolat, S. Ungor (ISTANBUL, TR)</i>	1650
12:12 ›	Echocardiographic finding of an asymptomatic and unruptured left sinus of Valsalva aneurysm: report of a case. <i>I. D'agostino, J. Lombardi, L. Leo, T. Tiziano, G. Via, T. Cassina (Paris, FR; Lugano, CH)</i>	1651
12:21 ›	An uninvited guest <i>B. Izquierdo, J. Lopez Pais, D. Galan Gil, M.J. Espinosa Pascual, B. Alcon Duran, J.F. Ceballo Silva, F.J. Garcia Ruiz, J. Saavedra Falero, C.E. Martin Lopez, M.T. Alberca Vela (Getafe and Madrid, ES)</i>	1652

• Saturday Posters

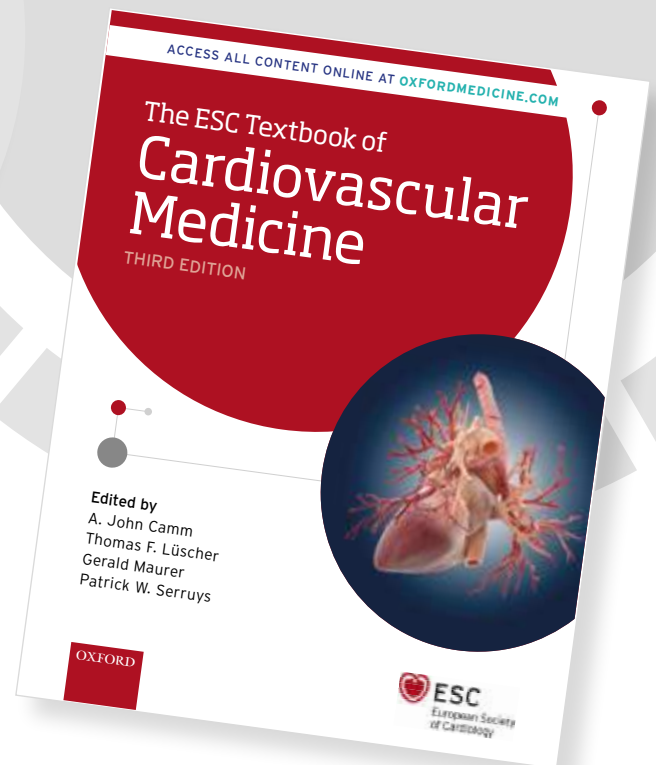
HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee

90 seconds **to win** the new ESC textbook!

Look for the '**90 second desk**'

Update your My ESC account
for a chance to win
the new *ESC Textbook*
of Cardiovascular Medicine
*3rd edition**



Prize draw date:
8 December 2018

The ESC textbook will be sent directly to your institution

* Rules and regulations for participation available on dedicated terminal

 **ESC**
European Society
of Cardiology

08:30 - 12:30

POSTER SESSION

POSTER AREA

Clinical case poster session 6

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00 - Meet the presenters by their poster.

Transesophageal Echocardiography

Discrete dissection of descending thoracic aorta confused with penetrating ulcer
C. Evdoridis, C. Grigoriou, G. Michas, V. Mountaki, A. Trikas (Athens, GR) P1653

Aortic regurgitation as risk factor for coronary embolization from complex atheromatous aortic plaques.
A clinical case.
V. M. Parato, M.C. Di Saverio, M. Scarano (San Benedetto del Tronto, IT) P1654

Severe complications of unexpected staphylococcus aureus mitral valve endocarditis in a previously healthy
22-year- old
T. Thottakara, J. Starekova, I. Lettow, E. Tahir, C. Sinning, S. Blankenberg (Hamburg, DE) P1655

17 y old tall boy with marphonoid physique presented with respiratory distress dicovered having flail MV with severe
MR,huge TV vegetation at atypical side and dilated aortic root with retracted RCC
A. Khalil (Jeddah, SA) P1656

Late Toronto prosthesis dysfunction causing severe deterioration and cardiogenic shock
*J. P. Dias Ferreira Reis, T.B. Mano, S. Aguiar Rosa, L.A. Morais, L. Branco, P. Rio, A. Agapito,
A. Laranjeira, J. Fragata, R. Cruz Ferreira (Lisbon, PT)* P1657

Hypertrophic obstructive cardiomyopathy associated with secundum type atrial septal defect, mitral valve prolapse
and pulmonary hypertension
A. Siama, A. Tsoukas, A.J. Manolis (Athens, GR) P1658

Aortic valve endocarditis and root abscess: multimodality imaging & management
*S. Suhail, G. Bhatnagar, J. Bonatti, L. Noor, S. Sanger, M. Fernanda-Bonilla, S. Adigopula,
J. Grapsa (Abu Dhabi, AE; Cleveland, US)* P1659

Contrast Echocardiography

Simultaneous imaging of a right ventricular apical thrombus and adjacent septal scar by contrast ultrasound in
a patient with a previous anterior myocardial infarction
S. Suma, G. Benatti, N. Gaibazzi, A. Palumbo, F. De Rosa, S. Coli (Parma, IT) P1660

Cardiac Magnetic Resonance

Advanced atrioventricular block in a young adult
D. Candeias Faria, J. Ferreira, D. Roque, J. Augusto, H. Ferreira, A. Freitas, C. Morais (Amadora, PT) P1661

Multiple intracardiac thrombi complicated with acute peripheral arterial ischemia
*T.M. Matajira Chia, A. Martin-Garcia, A.C. Martin-Garcia, E. Diaz Pelaez, M. Gallego Delgado,
M. Barreiro Perez, C. Avila Escribano, V. Vallejo Garcia, M. Gonzalez Ruiz, M. Lopez Serna,
S. Merchan Gomez, L. Alvarez Rodriguez, M. Bastos Fernandez (Salamanca, ES)* P1662

A challenging diagnosis of valvular heart disease
*A. Xavier Fontes, L. Oliveira, C. Serena, S. Moura-Ferreira, C. Almeida, C. Machado, R. Dourado, E. Santos,
N. Pelicano, A. Tavares, D. Martins (Ponta Delgada, PT)* P1663

Bilateral absence of the superior vena cava
R. Sirbu Prisecaru, L. Riahi, Y. De Greef, D. Stockman, B. Schwagten (Sibiu, RO; Tunis, TN; Antwerp, BE) P1664

Residual mediastinal mass in releapsed Hodgkin's disease: multiparametric MR imaging techniques
*T.M. Matajira Chia, R. Garcia Sanz, A. Martin-Garcia, A.C. Martin- Garcia, M. Gonzalez Ruiz, E. Diaz Pelaez,
M. Barreiro Perez, M. Gallego Delgado, M. Lopez Serna, S. Merchan Gomez,
L. Alvarez Rodriguez, M. Bastos Fernandez, P.L. Sanchez (Salamanca, ES)* P1665

Diagnostic discriminatory power of multiparametric cardiac magnetic resonance in diagnosing the cause of ventricular fibrillation in left ventricular dysfunction with competing aetiologies P1666

T. Ntoskas, E. Mcalindon, S. Petkar, S. S. Hothi (Wolverhampton, GB)

A matter of arteries and veins P1667

I. Duraes Campos, C. Vieira, N. Salome, A. Costeria-Pereira, V.H. Pereira, N. Bettencourt, J. Costa, C. Quina-Rodrigues, C. Oliveira, J. Marques (Braga, PT)

Takotsubo cardiomyopathy in a 12 years old female suffering of asthma P1668

C. Paolini, S. Casella, C. Dalla Valle, I. Lobascio, R. Malago, A. Mecenero, C. Bilato (Arzignano and Verona, IT)

Arrhythmogenic cardiomyopathy with isolated left ventricle involvement and heart failure in a 38-year old male patient. Role of CMR. P1669

V. M. Parato, M.C. Di Saverio, M. Scarano (San Benedetto del Tronto, IT)

A rare cause of cardiac constriction P1670

I. Bravo Martinez, N. Garcia, M. Codina, A. Manzanal, G. Aurrekoetxea, P. Mendoza, C. Asla, M. Castellanos, R. Martinez De Bourio, A. Ullate, L. Ruiz (Bilbao, ES)

An unexpected finding in a routine echocardiogram P1671

I. Duraes Campos, J. Martins, A.S. Matos, L. Basto, C. Vieira, V.H. Pereira, N. Bettencourt, A. Costeira-Pereira, N. Salome, J. Marques (Braga and Viana do Castelo, PT)

Behind the acute coronary syndrome: the use of cardiac MRI P1672

L. Filippetti, C. Venner, O. Huttin, C. Selton Suty (Vandoeuvre les Nancy, FR)

An unexpected cardiac magnetic resonance imaging finding P1673

A. Marques, D. Caldeira, I. Cruz, S. Alegria, A.R. Pereira, A.C. Gomes, A. Briososa, D. Sebaiti, A.R. Almeida, I. Joao, H. Pereira (Almada, PT)

Cross-Modality and Multi-Modality Imaging Topics

Hidden behind the radical treatment of an invasive thymoma - a case report P1675

M. Horumba, G. Cristea, R. Ilie, D.V. Spataru, A.L. Gurghean, A.M. Vintila, R. Siliste, C. Homentcovschi, R. Ciomag (Bucharest, RO)

Bicuspid severe aortic stenosis in pregnancy: when life struggles with physiopathology P1676

L.F. Trasca, N. Patrascu, M.S. Neagu, D. Vinereanu (Bucharest, RO)

How many lives does one have in Marfan syndrome? P1677

B. Fetecau, M. Rotareasa, C. Banescu, H. Moldovan, D. Deleanu, R. Jurcut (Bucharest and Targu Mures, RO)

Longitudinal strain in a young patient with laminopathy P1678

U. D. Breskvar, N. Kajdic, G. Zemljic, R. Zbacnik, A. Cerne Cercek, D. Zizek (Ljubljana, SI)

Effect of sacubitril/valsartan on pulmonary hypertension due to left heart disease: a case report P1679

A. Giammarresi, F. Bandera, M. Losito, V. Labate, E. Alfonzetti, M. Guazzi (San Donato Milanese, IT)

A rare cause of acute left ventricular systolic dysfunction in the immediate postpartum period P1680

C. Jozsa, V. Pergola (London, GB)

Acute left ventricle systolic dysfunction after chemoembolization with irinotecan in a 61-year-old patient with cholangiocarcinoma P1681

M. Zechowicz, L. Gromadzinski, U. Laczowska, B. Moczulska, M. Rucinska (Olsztyn, PL)

Right ventricle failure as a consequence of a concrete lung and septic shock: mechanical circulatory support P1682

A. Gambaro, H. Soliman, C. Vanderbriele, R. Fisher, F. Caetano, J. Doyle, S. Price (London, GB)

Left ventricular aneurysm after myocardial infarction: the important contribution of detailed imaging modalities to decide on aneurismectomy P1683

C. Brizido, M. J. Andrade, A. M. Ferreira, P. Freitas, D. Matos, P. Magro, F. F. Gama, S. Madeira, M. Trabulo, J. P. Neves, M. Mendes (Lisbon, PT)

An unusual case of ARCAPA in the elderly: role of multimodality imaging	P1684
<i>F. Casadei, P. Pedrotti, G. Annoni, G. Vignati, B. De Chiara, P. Sormani, F. Musca, F. Spano', O. Belli, G. Santambrogio, C. Giannattasio, A. Moreo (Milan, IT)</i>	
Unexpected cause of chest pain with ST-elevation on ECG	P1685
<i>A. Gomiscek, S. Korosec, J. Avramovic, G. Plevnik (Izola, SI)</i>	
A very rare coronary anomaly case report	P1686
<i>M. Hassan Abdelnabi, A. Almaghraby, M. Sanhoury, Y. Saleh, E. El Sharkawy, M. Hassanein (Alexandria, EG)</i>	
Prinzmetal angina - a life threatening diagnosis	P1687
<i>T. Branco Mano, L. Moura Branco, J. Reis, S. Aguiar Rosa, S. Jardim, R. Cruz Ferreira (Lisboa and Lisbon, PT)</i>	
Transverse sinus pericarditis causing a recurrent chest pain in a 61-year old woman with a suspicion of aortic inflammation and dissection	P1688
<i>M. Zechowicz, U. Laczowska, A. Zurada, B. Moczulska, M. Rucinska, L. Gromadzinski (Olsztyn, PL)</i>	
Effusive-constrictive pericarditis in a patient with end-stage renal disease.	P1689
<i>A. Wojtkowska, M. Zakoscielna, A. Wysokinski, E. Czekańska-Chehab, A. Tomaszewski (Lublin, PL)</i>	
Primary cardiac angiosarcoma presenting with recurrent pericardial effusions	P1690
<i>H.S. Ahn, S.H. Kim, C.S. Park, S.K. Ryu, H.K. Jeon (Uijeongbu, Seoul and Bucheon, KR)</i>	
Purulent pericarditis complicating aortic valve infective endocarditis	P1691
<i>C. M. Bulei, R. Enache, B. Radulescu, C. Ginghina, B.A. Popescu (Bucharest, RO)</i>	

08:30 - 12:30

POSTER SESSION

POSTER AREA

Poster session 6

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00 - Meet the presenters by their poster.

Echocardiography: Technology

A novel high quality ultrafast ultrasound imaging method for mapping heart dynamics P1692
W.N. Lee, Y. Zhang, H. Li (Hong Kong, HK)

Incremental value of two-dimensional vector flow mapping for estimating left ventricular diastolic filling pressure P1693
K. Patel, M. Tokodi, J.S. Cho, G. Casaclang-Verzosa, M. Ashraf, P.P. Sengupta (Morgantown, US)

Application of knowledge-based reconstruction to three dimensional echocardiography and comparison with semiautomatic border detection method for evaluating ventricular function P1694
L. Li, J. Graba, M. Craft, G. Varghese, S. Kutty (Omaha, US; Toronto, CA)

Signal intensity coefficient predicted the long term outcome in patient with aortic stenosis induced myocardial fibrosis P1695
C. Wei-Ting, P. Hiremath, C.H. Lin, R. Liao, S. Cheng (Tainan, TW; Boston, US)

Technology-enhanced learning for focused point-of-care cardiac ultrasound P1696
A.S. Lota, V.F. Panoulas, S.K. Prasad, P. Nihoyannopoulos (London, GB)

Intervendor comparison of mitral valve analysis software P1697
M. Bratanoff, S. Garwood, S. Garwood, Q. Zhu, Q. Zhu, I. Vaitkeviciute, I. Vaitkeviciute, B. Lin, B. Lin, J. Mancina, J. Mancina, S. Fukuda, S. Fukuda, T. Imamura, T. Imamura, W. Gorrisen, W. Gorrisen, L. Sugeng, L. Sugeng (New Haven, US; Nasu, JP)

Quantitative analysis of intraventricular blood flow dynamics using a new technique, Doppler analyzer: circulation strength and energy dissipation in patients with non-ischemic cardiomyopathy P1698
E. K. Kim, C. Hahn, Y. Moon, S.W. Park, S.J. Park, S.A. Chang, S.C. Lee (Seoul, KR)

Ejection fraction can be accurately determined using a cloud based platform on mobile devices P1699
A. Salacata, J. Kapalla, S. Panknin (Alpena, US)

A creative mathematical method to provide non-invasively the shape of blood fluid across the orifice of mitral valve of heart based on echocardiographic data P1700
M. Karvandi, S. Ranjbar (Tehran and tehran, IR)

The space border method for motion analysis of the left ventricular inner-wall of heart in echocardiographic images P1701
M. Karvandi, S. Ranjbar (Tehran and tehran, IR)

The challenge of a new insight into evaluation of abnormal left ventricular wall motion P1702
Y. Nakamura (Matsuyama, JP)

Echocardiography: Systolic and Diastolic Function

Dyssynchronous motion of the left ventricle during early diastole is an important factor that decreases intraventricular pressure difference in pediatric cancer survivors P1703
K. Matsui, K. Takahashi, S. Shigemitsu, T. Iso, M. Ifuku, K. Yazaki, M. Yamada, M. Kobayashi, H. Tamaichi, J. Fujimura, K. Itatani, T. Shimizu (Tokyo and Kyoto, JP)

Echo-derived hemodynamic profiles and BNP are useful to risk stratify patients with chronic heart failure and reduced ejection fraction P1704
N. R. Pugliese, I. Fabiani, A. D'agostino, G. G. Galeotti, D. A. Luisi, G. Pestelli, C. Santini, I. Rovai, D. Mele, R. Pedrinelli, F. L. Dini (Pisa and Ferrara, IT)

Improved diastolic function in non-diabetic patients with metabolic syndrome treated with metformin: 1 year results from MET-DIME randomized clinical trial P1705
R. Ladeiras-Lopes, F. Sampaio, S. Leite, N. Bettencourt, A. Leite-Moreira, V. Gama, P. Braga, R. Fontes-Carvalho (Vila Nova de Gaia and Porto, PT)

- Cardiac resynchronisation therapy - leaving the right ventricle as a lonely rider P1706
P. Storsten, J. Aalen, C.K. Larsen, E. Boe, J. Duchenne, J.U. Voigt, O.A. Smiseth, H. Skulstad (Oslo, NO; Leuven, BE)
- The clinical presentation and outcome of aortic coarctation associated with left ventricular inflow and outflow tract obstruction in adult patients: Shone syndrome and beyond P1707
W. Li, T. Shaw, A. Kempney, K. Dimopoulos (London, GB)
- Left ventricular ejection fraction is higher, whereas left ventricular global longitudinal strain and right ventricular longitudinal strain are lower in young Asian trained athletes P1708
J.H. Park, I.W. Seong, B.S. Seo, K.H. Kim, J.Y. Cho, S.W. Park, G.Y. Cho, M.H. Jeong, J.G. Cho, J.C. Park (Daejeon, Gwangju, Seoul and Seongnam, KR)
- Indices of noninvasive global left ventricular myocardial work: relationships with regional wall peak systolic strain in a normal population P1709
I. Armenis, K. Koutsiari, G. Athanassopoulos (Piraeus Greece, GR)
- LVAD pre-treatment impede recovery of right ventricular contractility after heart transplantation P1710
A. Ingvarsson, A. Werther Evaldsson, G. Radegran, J. Waktare, G. Smith, A. Roijer, C. Meurling (Lund, SE; Liverpool, GB)
- Serial changes in maternal cardiac function in women with severe features of preeclampsia before and within first days after delivery P1712
J. Ambrozic, M. Cvijic, K. Prokselj, M. Lucovnik (Ljubljana, SI)
- Systolic ventricular function in Fontan patients before transition to adult care P1713
T. Moller, D. Yim, W. Hui, C. Fackoury, E.J. Hickey, L. Mertens (Toronto, CA)
- Right heart function in patients with diastolic heart failure. P1714
S.E.L.E.N. Yurdakul, E.S.R.A. Kaya, C.A.N.S.U. Akdeniz, T.A.Y.L.A.N. Sahin, T.U.Ğ.B.A. Aktemur, C.A.V.L.A.N. Ciftci (Istanbul and Izmir, TR)
- Echocardiography: Valve Disease**
- Can mitral annular calcification (MAC) cause systolic anterior motion (SAM) of the mitral valve? P1715
R. Ranjan, M.C. Roderiguez Ziccardi, B.S. Abdulhadi, Y.S. Alhamshari, H.D. Jeon, E.J. Friend, G.S. Pressman (Philadelphia, US)
- Impact of valvulo-arterial impedance on longitudinal myocardial function after transcatheter aortic valve implantation (TAVI) P1716
F. Avci Demir, M. Eskandari, O. Aldalati, V. Tzalamouras, R. Dworakowski, J. Byrne, O. Wendler, P. Maccarthy, M. Monaghan (London, GB)
- Differences in layer-specific longitudinal strain and myocardial work in symptomatic and asymptomatic patients with severe aortic stenosis P1717
F. Ilardi, R. Dulgheru, S. Marchetta, S. Cimino, G. D'amico, R. Manganaro, P. Lancellotti (Liege, BE)
- Left ventricular and mitral valve geometry in patients with mitral valve prolapse and mild regurgitation: a three-dimensional echocardiographic study P1718
R.C. Ochoa-Jimenez, A.C. Guta, S. Civera, V. Guida, P. Aruta, C. Palermo, M. Previato, H. Shehata, M. De Lazzari, A. Cipriani, S. Illiceto, L.P. Badano, D. Muraru (New York, US; Bucharest, RO; Padua, IT)
- Discriminating severity in aortic stenosis: are left atrial mechanics the right tool? P1719
P. Marques-Alves, V. Marinho, C. Domingues, R. Baptista, R. Martins, L. Goncalves (Coimbra, PT)
- Characteristics and outcomes of low-flow low-gradient severe aortic stenosis after aortic valve replacement or TAVI P1720
L. Galian-Gay, R.A. Escalona Silva, E. Ferrer-Sistach, C. Mitroi, S. Mingo, V. Monivas, V. Sanchez, A. Bouzas, M. Noris Mora, F. Calvo, A. Gonzalez, C. Fernandez-Golfin, A. Lorente, M.A. Arnau Vives, A. Evangelista (Barcelona, Badalona, Madrid, A Coruña, Palma de Mallorca, Vigo and Valencia, ES)
- Severe aortic stenosis: measurement of energy loss index using 3d echocardiography without geometrical assumptions ... is the stenosis really severe? P1721
M. Lombardero, A. Arrijoja, R. Henquin (Buenos Aires, AR)

Global longitudinal strain as a marker of LV hypertrophy with electrocardiogram strain predicts LV mass regression in severe aortic stenosis patients undergoing transcatheter aortic valve replacement	P1722
<i>T. Onishi, S. Nakatani, K. Sengoku, T. Mukai, M. Tsuda, Y. Ichibori, I. Mizote, T. Ohtani, K. Maeda, T. Kuratani, Y. Sawa, Y. Sakata (Osaka, JP)</i>	
Long-term prognosis of patients with non-severe ischemic mitral regurgitation undergoing coronary artery bypass grafting	P1723
<i>R. Piatkowski, J. Kochanowski, M. Budnik, P. Scislo, M. Grabowski, D.A. Kosior, G. Opolski (Warsaw, PL)</i>	
Left atrial strain correlates with cardiovascular events in patients with rheumatic mitral stenosis	P1724
<i>F. A. Castro, O. Azevedo, M. Lourenco, B. Faria, M. Oliveira, M. Fernandes, S. Leite, I. Oliveira, A. Lourenco (Guimarães, PT)</i>	
A reappraisal of bioprosthetic structural valve degeneration after aortic valve replacement: mode, outcome and effect of treatment.	P1725
<i>L. Guerma, J.C. Roos, R. Capoulade, G. Guimbretiere, C. Cuffe, P. Jaafar, V. Padler- Karavani, R. Manez Mendiluce, V. Letocart, J.P. Souilhou, E. Cozzi, T. Senage, J.M. Serfaty, J.C. Roussel, T. Le Tourneau (Nantes, FR; Tel Aviv, IL; Barcelona, ES; Padua, IT)</i>	
The long term prognostic impact of mitral regurgitation in STEMI patients treated with primary PCI.	P1726
<i>J.P. Alves Guimaraes, F. Goncalves, M. Moz, S. Borges, P.S. Mateus, J. Trigo, J.I. Moreira (Vila Real, PT)</i>	
Comparison of echocardiographic variables in severe degenerative and rheumatic mitral stenosis	P1727
<i>R. Ruanjan, M.C. Rodriguez Ziccardi, B.S. Abdulhadi, Y.S. Alhamshari, H.D. Jeon, E.J. Friend, C.Y. Shim, D.H. Park, G.R. Hong, G.S. Pressman (Philadelphia, US; Seoul, KR)</i>	
Echocardiographic findings in patients with bicuspid aortic valve with and without raphe enrolled in REBECCA registry.	P1728
<i>R. Citro, S. La Carrubba, I. Fabiani, G. Faganello, A. Barbieri, A. Cresti, A. Moreo, I. Dentamaro, M. Bellino, I. Monte, V. Manuppelli, A. Posteraro, F. Antonini-Canterin, F. Benedetto, P. Colonna (Salerno, Palermo, Pisa, Trieste, Modena, Grosseto, Milan, Bari, Catania, Foggia, Rome, Motta di Livenza, Reggio Calabria and Treviso, IT)</i>	
Quadricuspid and bicuspid aortic valves: similarities and differences	P1729
<i>D. Sharif, E. Azzam, Y. Sharif, A. Sharif-Rasslan, M. Ganaim, U. Rosenschein (Haifa and Tel Aviv, IL)</i>	
Transesophageal Echocardiography	
Transseptal puncture in congenital heart disease for intervention procedures: the added value of RT3D echocardiography	P1730
<i>L. Lanzoni, G. Molon, S. Bonapace, C. Dugo, A. Chiampan, A. Cecchetto, E. Barbieri (Negrar- Verona, IT)</i>	
Clinical vs echocardiographic parameters in the prediction of left atrial thrombosis.	P1731
<i>A. Garcia Martin, M. Abellas Sequeiros, A. Pardo Sanz, J.L. Moya Mur, L.M. Rincon Diaz, E. Casas Rojo, A. Marco Del Castillo, A. Lorente Ros, C. Santoro, A. Gonzalez Gomez, R. Hinojar, J.J. Jimenez Nacher, S. Ruiz Leira, J.L. Zamorano, C. Fernandez-Golfin (Madrid, ES)</i>	
Left atrial appendage volume and orifice area measured by three-dimensional transesophageal echocardiography associates with severity of heart failure in patients with persistent atrial fibrillation	P1732
<i>M. Suzuki, S. Hattori, N. Toyokawa, S. Sakai, H. Yano, A. Iwai, K. Nogi, H. Fujimoto, H. Iwama, T. Nakai, N. Doi (Nara, JP)</i>	
LAA percutaneous closure: experience of 90 cases.	P1733
<i>L. Lanzoni, G. Molon, G. Canali, S. Bonapace, A. Cecchetto, A. Chiampan, C. Dugo, E. Barbieri (Negrar-Verona, IT)</i>	
Comparison of effectiveness in left atrial appendage thrombus preventing between warfarin and non-vitamin K anticoagulants - are the treatment options equivalent?	P1734
<i>K. Kosmalska, N.G.M. Natasza Gilis-Malinowska, P.-M. Pawel Miekus, M.-F. Marcin Fijalkowski (Gdynia, Gdansk and Gdansk, PL)</i>	
Cardiac chamber and structural quantification by transoesophageal versus transthoracic echocardiography: retrospective and real time comparisons and a call for a standard plane for quantification	P1735
<i>E. Rauseo, J.P. Khoo, D.J. Newton, D.T. Chin, R.C. Chelliah, S. S. Hothi (Rome, IT; Leicester, Oxford and Wolverhampton, GB)</i>	

Relationship between aortic calcifications and coronary stenosis	P1736
<i>S. Latreche Sekoum, N. Methia, M. Djouhri, F. Harbi, D. Saidouamar, S. Benkhedda (ALGER, DZ)</i>	
Should we routinely perform transesophageal echocardiography before electrical cardioversion? A real world contemporary study	P1737
<i>G. Ferrante, F. Bursi, A. Pugno, L. Massironi, L. Bosotti, S. Persampieri, F. Valli, C. Bencini, M.S. Negroni, D. Torta, S. Carugo (milan, IT)</i>	
Transesophageal echocardiography guidance of periventricular device closure of ventricular septal defects without cardiopulmonary bypass	P1738
<i>I.V. Tkachev, V.I. Gerasimenko, M.V. Plotnikov, S.M. Smirnov, M.A. Tungusova, O.Y. Alexandridi, I.V. Barkov (Astrakhan, RU)</i>	
Tissue Doppler, Speckle Tracking and Strain Imaging	
Left ventricular longitudinal strain is associated with mitral annular fractional area change in healthy subjects - a three- dimensional speckle-tracking echocardiographic study	P1739
<i>A. Nemes, Z. Kovacs, A. Kormanyos, P. Domsik, A. Kalapos, C. Lengyel, N. Ambrus, T. Forster (Szeged and Baja, HU)</i>	
LV deformation mechanics impairment in chronic AF even with preserved systolic function	P1741
<i>P. Kostakou, K. Keramida, G. Tsimekas, V. Giannaris, V. Kostopoulos, E. Tryfou, C.D. Olympios, N. Kouris (Athens, GR)</i>	
Additional value of speckle-tracking echocardiography during of myocardial contractile reserve evaluation	P1742
<i>O. V. Tereshina, O. A. Germanova (Samara, RU)</i>	
Interventricular septum thickness and mechanical dispersion by strain echocardiography may be used as predictive parameters of potential arrhythmogenicity in patients with HFpEF	P1743
<i>A. Sustar, L. Tudor, S. Matulic, S. Matijevic Roncevic, Z. Diklic, A. Ruzic (Rijeka and Zagreb, HR)</i>	
Serum osteopontin as a predictor of severity in patients with heart failure: correlation with clinical and echocardiographic parameters	P1744
<i>W. Hamed, A.A. Reda, M.A. Soliman, A. Elshabka (Shebin El-kom, EG)</i>	
Interest of echocardiography in evaluating structural and atria function in elite athletes	P1745
<i>C. Ketfi (Paris, FR)</i>	
Comparison of RV strain between takotsubo syndrome and left anterior descending artery disease	P1746
<i>I. H. Jung, J. H. Park (Seoul, KR)</i>	
Are there differences in left atrial function due to myocardial deformation techniques in patients with severe aortic stenosis according to flow conditions?	P1747
<i>C. Santoro, R. Hinojar, A. Marco Del Castillo, A. Gonzalez-Gomez, L. Salido, A. Garcia, J.M. Vieitez Florez, E. Ortega, J.J. Jimenez-Nacher, R. Hernandez Antolin, J.L. Zamorano Gomez, C. Fernandez-Golfin (Madrid, ES)</i>	
Conventional and speckle-tracking echocardiographic assessment of patients with newly diagnosed hereditary haemochromatosis with consideration of age	P1748
<i>L. Danilowicz-Szymanowicz, K. Rozwadowska, M. Fijalkowski, K. Sikorska, G. Raczak (Gdansk, PL)</i>	
Assessment of age-related changes in cardiac function using speckle tracking echocardiography in patients with type 1 diabetes mellitus	P1749
<i>T. Iso, K. Takahashi, M. Ifuku, K. Yazaki, H. Haruna, N. Takubo, M. Kurita, F. Ikeda, H. Watada, T. Shimizu (Tokyo, JP)</i>	
The role of epicardial longitudinal strain in the follow-up of patients with myocarditis	P1750
<i>C. Evdoridis, G. Michas, C. Grigoriou, V. Tzamou, G. Blazakis, C. Panourgia, T. Thomopoulos, E. Malaxianaki, A. Trikas (Athens, GR)</i>	
Transmural myocardial involvement in cardiac amyloidosis from early stages	P1751
<i>R. Callizo, V. Mora, I. Roldan, R. Arbucci, E. Romero, M.M. Perez-Gil, R. Serrats, V. Faga, A. Saad, J. Lowenstein (Valencia, ES; Buenos Aires, AR)</i>	

Role of longitudinal mechanics in cardiotoxicity monitoring of breast cancer patients initially assessed with MUGA	P1752
<i>O. Calvillo Arguelles, H.G. Rodriguez Zanella, J.D. Sierra Lara-Martinez, J.F. Fritche Salazar, A. Jordan Rios, C.H. Arce Salinas, D.F. Flores Diaz, K. Balderas Munoz, L.E. Posada Martinez, X.A. Ortiz Leon, M.E. Ruiz-Esparza Duenas, J.A. Arias Godínez (Mexico City, MX)</i>	
Right ventricular dysfunction in patients with moderate mitral stenosis detected by 2D strain	P1753
<i>K. Taamallah, K.A.R.I.M.A. Taamallah, C.H.A.D.I.A. Chourabi, M.Y.R.I.A.M. Dghim, I.M.E.N. Hamdi, H.O.E.I.D.A. Mahfoudhi, W.A.F.A. Fehri, H.A.B.I.B. Haouala (Tunis, TN)</i>	
left atrial function in mitral stenosis: contribution of speckle tracking	P1754
<i>K.A.R.I.M.A. Taamallah, C.H.A.D.I.A. Chourabi, I.M.E.N. Hamdi, W.A.F.A. Fehri, H.A.B.I.B. Haouala (Tunis, TN)</i>	
Alterations in left ventricular torsion mechanics by septal shift in patients with precapillary pulmonary hypertension	P1755
<i>R. Kaiser, D. Liu, P. Arias, K. Hu, K.C. Grotemeyer, P. Nordbeck (Homburg and Würzburg, DE)</i>	
Left atrial mechanics in hypertensive women with surgical and natural menopause	P1756
<i>M. Y. Kolesnyk, M. V. Sokolova (Zaporizhzhya, UA)</i>	
Study of right ventricular systolic function in postoperative cardiac surgery	P1757
<i>K.A.R.I.M.A. Taamallah, M.Y.R.I.A.M. Dghim, S. Chenik (Tunis, TN)</i>	
Performance of left ventricular strain quantification by cardiac magnetic resonance compared to echocardiography	P1758
<i>E. Perez Contreras, D. Vilades Medel, C. Li, E. Bertoli Ingles, R. Leta Petracca, F. Carreras Costa (Barcelona, ES)</i>	
Noninvasive assessment of regional pressure strain loop in hypertensive patients	P1759
<i>K. Hristova, R. Marinov, N. Tselov, S.V. Tsonev, V. Bogdanova (Sofia, BG; Paris, FR)</i>	
Strain 2D contribution to differentiate hypertrophic cardiomyopathy from amyloidosis	P1760
<i>R. Arbucci, A. Saad, M. Casella, N. Gastaldello, P. Merlo, G. Rousse, C. Perez Olivares, J. Perez Gozalbo, V. Mora, J.A. Lowenstein (Buenos Aires, AR; Valencia, ES)</i>	
Utility of myocardial deformation imaging early after primary pci in stemi patients to predict heart failure development during the first 12 months of follow up	P1761
<i>D. Trifunovic, G. Krljanac, L. Savic, M. Asanin, J. Dudic, L. Cucic, M. Vorkapic, I. Mrdovic (Belgrade, RS)</i>	
Can speckle-tracking echocardiographic strain analysis be used for the detection of late gadolinium enhancement by magnetic resonance imaging in patients with nonischemic cardiomyopathy?	P1762
<i>T. Hozumi, S. Ota, K. Takemoto, N. Maniwa, M. Kashiwagi, K. Shimamura, A. Kuroi, Y. Matsuo, H. Kitabata, Y. Ino, T. Kubo, A. Tanaka, T. Akasaka (Wakayama, JP)</i>	
Improvements in early cardiac dysfunction with weight loss in overweight adolescents with intellectual and developmental disabilities	P1763
<i>D. Forsha, L. Ptomey, D. White, T. Johnson, L. Kuzava, R. France, M. Kathol, N. Goth, M. Artman, G. Shirali, J. Donnelly (Kansas City, US)</i>	
Rotational mechanics and left ventricular strain in morbid obesity: evaluation of subclinical myocardial impairment by speckle-tracking echocardiography.	P1764
<i>E. Romero Dorta, V. Mora Llabata, C. Morillas Arino, J. Bertolin Boronat, V. Faga, M. Perez Gil, R. Serrats Lopez, R. Callizo Gallego, R. Fernandez Galera, I. Roldan Torres (Valencia, ES)</i>	
Left ventricular rotational abnormalities following successful kidney transplantation as assessed by three-dimensional speckle-tracking echocardiography	P1765
<i>A. Kormanyos, B. Borda, A. Kalapos, P. Domsik, G. Lazar, T. Forster, A. Nemes (Szeged, HU)</i>	
Tissue Doppler echocardiography as a predictor for left ventricular systolic function recovery after percutaneous intervention	P1766
<i>A. Youssif, A. Ali, A. Salem, M. Oraby (Ismailia, EG)</i>	
do end-systolic segmental longitudinal strain can predict myocardial viability in ST elevation myocardial infarction patients	P1767
<i>F. Mghaieth Zghal, M. Mechri, S. Boudiche, Z. Ben Ali, M. Ben Halima, S. Ouali, N. Larbi, M.S. Mourali (tunis and Tunis, TN)</i>	

The role of two-dimensional speckle tracking echocardiography for immediate invasive strategy in patients with non- ST-elevation acute coronary syndromes
R. Shamoyan (Yerevan, AM) P1768

Ventricular deformation indices trend in thalassemic patients
I. P. Monte, V. Losi, L. Micali, M. Monte, M. Sanfilippo, S. Licciardi, L. D'urso, D.C. Faro, F. Privitera, C. Tamburino (Catania, IT) P1769

3D Echocardiography

Machine learning for recognition of athlete's heart using 3D volumetric and motion analysis of the right ventricle
M. Tokodi, B.K. Lakatos, O. Kiss, A. Fabian, N. Sydo, M. Babity, C.S. Bognar, A. Kovacs, B. Merkely (Budapest, HU) P1770

Relative importance of reduced left and right ventricular ejection fraction to predict prognosis in a large cohort of unselected patients with cardiac diseases: a 3D echocardiography study
E. Surkova, D. Genovese, D. Muraru, P. Aruta, S. Iliceto, L.P. Badano (London, GB; Padua, IT) P1771

Right ventricular functional shift assessed by three-dimensional echocardiography: characteristic feature of athlete's heart?
A. Kovacs, B. K. Lakatos, O. Kiss, N. Sydo, Z. Toser, Z. Komocsin, A. Fabian, D. Major, M. Babity, M. Tokodi, B. Merkely (Budapest, HU; Dover, DE, US) P1772

Multi-parametric on board evaluation of right ventricular function using 3D echocardiography: feasibility and accuracy against traditional 2- and 3 dimensional echocardiographic measurements
G. Tamborini, C. Cefalu, F. Celeste, L. Fusini, V. Mantegazza, M. Muratori, P. Gripari, S. Ghulam Ali, A. Garlasche, G. Berna, M. Pepi (Milan, IT) P1773

Right ventricular function in acute pulmonary embolism: a three-dimensional strain study
P. Mocerì, N. Duchateau, B. Sartre, M. Serresant, E. Ferrari (Nice, Lyon and Sophia-Antipolis, FR) P1774

Three-dimensional geometrical and functional atrial remodeling in competitive athletes
A. A. Molnar, B. Lakatos, B. Solymossi, Z. Tarcza, T. Kovacs, C. Bognar, A. Kovacs, N. Sydo, O. Kiss, B. Merkely (Budapest, HU) P1775

Feasibility and accuracy of automated software for transthoracic three-dimensional left ventricular and atrial volumes and function analysis in mitral valve degenerative regurgitation
F. Trotta, G. Tamborini, M. Muratori, M. Mapelli, L. Fusini, M. Guglielmo, G. Italiano, M. Mantegazza, C. Cefalu', P. Gripari, S. Ghulam Ali, G. Pontone, D. Andreini, M. Pepi (Milan, IT) P1776

Errors in regurgitant flow measurement using 3D-PISA: mathematical model of the ISO-Doppler surface compared with in vitro measurements
P. Decurtins, S. Brugger, C. Seiler, F. Zuercher, N. Brugger (Bern and Zurich, CH) P1777

Solving the conundrum of the left ventricular outflow tract diameter for assessment of the aortic valve area in bicuspid aortic valves - defining where and how to measure?
A. Frampton, A. Chong, P. Cramp, K. Davies, K. Kostner, S. Wahi (Brisbane, AU) P1778

The diagnostic role of 3D stress contrast echo in patients with known or suspected coronary artery disease. A single center 3D Stress contraSt echo Study (3D SSS)
C. Aggeli, I. Dimitroglou, A. Verveniots, L. Raftopoulos, K. Zisimos, A. Aggelis, P. Tolis, E. Tolis, D. Tousoulis (Athens, GR) P1779

Echocardiography, Other

The echocardiographic ratio between tricuspid regurgitation peak velocity and left atrial global strain differentiates pre-capillary from post-capillary pulmonary hypertension
A. Venkateshvaran, A. Manouras, C. Da Silva, C. Sequeira, H. Abdulrahim, A.I. Nagy, A. Lundberg, B. Kjellstrom, L.H. Lund (Stockholm, SE; Budapest, HU) P1780

Non homogenous deformation pattern of the left ventricle in familial amyloid polyneuropathy: is this the norm?
S. Goncalves, N. Cortez-Dias, L. Santos, T. Guimaraes, G. Silva, A.R. Francisco, J. Agostinho, I. Goncalves, I. Conceicao, A.G. Almeida, F.J. Pinto, C. Azevedo Coutinho (lisboa and Lisboa, PT) P1781

Impact of right ventricular size and function on prognosis in left ventricular non-compaction cardiomyopathy <i>S. F. Stampfli, T.G. Donati, J. Hellermann, L. Erhart, B.A. Kaufmann, B. Gencer, P.K. Haager, H. Muller, F.C. Tanner (Zurich, Schiers, Basel, Geneva and St. Gallen, CH)</i>	P1782
Bicuspid aortic valve: insights into natural history of the disease according to phenotype <i>J. Rigueira, A. Nunes-Ferreira, I. Aguiar-Ricardo, J.R. Agostinho, I. Santos-Goncalves, R. Santos, T. Rodrigues, N. Cunha, R. Placido, C. David, F. J. Pinto, A. G. Almeida (Lisbon, PT)</i>	P1783
Emergence of intracavitary vortex in isovolumic relaxation period in dyssynchronized left ventricle induced by right ventricular pacing <i>T. Iino, W. Sato, H. Watanabe (Akita, JP)</i>	P1784
Comprehensive detection of aortic stenosis in the general population requires low-threshold access to echocardiography Results from the population-based STAAB cohort study <i>C. Morbach, M. Breunig, G. Gelbrich, T. Tiffe, M. Wagner, P.U. Heuschmann, S. Stoerk (Wuerzburg, DE)</i>	P1785
Cardiac left ventricular structure and function in healthy subjects older than 80 year <i>O. Vriza, D. Galzerano, M. Adam, M. Al Humaid, K. Alassas, G. Di Salvo, B. Fadel, E. Bossone (Riyadh, SA; London, GB; Salerno, IT)</i>	P1786
Mitral valve closure: a tale of flow and pressure <i>D. Rodriguez Munoz, S. Hernandez, J.L. Moya, C. Fernandez-Golfin, J. Moreno, E. Franco, R. Matia, A. Hernandez-Madrid, J.L. Zamorano (Madrid, ES)</i>	P1787
Analysis of the changes in left ventricular regional performance by speckle tracking imaging in patients with Takotsubo cardiomyopathy after subarachnoid hemorrhage <i>K. Sugimoto, A. Yamada, K. Nakamura, M. Amano, K. Sugimoto, Y. Kawada, N. Hoshino, M. Hoshino, K. Takada, E. Sakaguchi, Y. Ozaki (Toyoake, JP)</i>	P1788
Epicardial adipose tissue predicts outcome in patients with systolic heart failure. <i>L. Petraglia, R. Formisano, F.V. Grieco, M. Conte, S. Provenzano, L. Ferrante, A. Caruso, M.G. Grimaldi, D. Bruzzese, N. Ferrara, D. Leosco, V. Parisi (Naples and Maddaloni, IT)</i>	P1789
The Guyana echocardiography education program: achievements and challenges after the first five years <i>S. Klassen, J. Lisac, A. Casco, P. Fung, M. Carpen, J.W. Warnica, D.L. Isaac (Boston, US; Hamilton, Ontario and Calgary, CA; Georgetown, GY)</i>	P1790
Close monitoring of pulmonary congestion in acute heart failure: ultrasound B-lines changes after diuretic therapy <i>L. Gargani, F. Frassi, A. Cipriano, E. Sgro, P. Vacca, A. Bionda, P. Santini, C. Zattera, M. Santini (Pisa, IT)</i>	P1791
Ventricular-arterial coupling and acute levels of DHEA-S in breast cancer survivors after a short term physical exercise protocol <i>V. Bucciarelli, F. Bianco, A. Di Blasio, T. Morano, D. Tuosto, F. Mucedola, P. Izzicupo, S. Di Santo, S. Verrocchio, I. Bucci, G. Napolitano, A. Di Baldassarre, E. Cianchetti, S. Gallina (Chieti, IT)</i>	P1793
Computed Tomography	
Assessment of ventricular dimensions from computed tomography in a prospective cohort study: the SCAPIS Malmo-cohort <i>A. Martinsson, A. Gilland, J. Backe, H. Fransson, E. Heiberg, G. Engstrom, J.G. Smith, E. Ostfeld (Lund and Malmö, SE)</i>	P1795
The role of multilayer stents in the treatment of aortic dissection: a single-center experience <i>T. Melnic, V.I.C.T.O.R. Costache, C. Solomon, A. Costache, M. Sandu, A. Sandu, C. Bucurenciu (Sibiu, RO)</i>	P1796
The left atrial appendage morphology by multi-detector computed tomography in Egyptian patients <i>M. Elzeneini, A. Elshazly, S. Wafa, A. Elmahmoudy Nayel (Cairo, EG)</i>	P1797
Aortic root dilatation in bicuspid patients: is it a problem? <i>P. Masi, O. Milleron, F. Arnoult, C. Bouleti, M. Langeois, E. Lansac, J.-F. Paul, M. Tchitchinadze, G. Jondeau (Paris, FR)</i>	P1798

Relation between semi-quantitative echocardiographic assessment of aortic valve calcification and quantitative calcium score by computed tomography in patients with bicuspid aortic valve	P1799
<i>L. Galian-Gay, C.H. Granato, F. Calvo, T. Sevilla-Ruiz, J. Bermejo, I. Mendez, V. Sanchez, J. Robledo-Carmona, J.M. Alegret-Colome, E. Ferrer-Sistach, D. Saura, G. Teixido, J.F. Rodriguez-Palomares, T. Gonzalez, A. Evangelista (Barcelona, Vigo, Valladolid, Madrid, Seville, Malaga, Reus, Badalona and Murcia, ES)</i>	
CT pre-TAVI: image quality and radiation dose in 13 different acquisition protocols	P1800
<i>C. Martini, R.D. Disalvo, G.C. Cicala, A.A.P. Palumbo (Parma, IT)</i>	
Correlation between subclinical coronary atherosclerosis and inflammation in diabetes type 2 patients compared to non diabetic moderate risk patients	P1801
<i>I. Peovska Mitevaska, E. Srbinovska, M. Bosevski, N. Baneva (Skopje, MK)</i>	
Usefulness of coronary calcium score to improve cardiovascular risk profile classification in cardiology patients	P1802
<i>B.I.M. Igual Munoz, R.P.S. Paya Serrano, M.G.A. Maceira Gonzalez, P.G.G. Garcia Gonzalez, J.L.P.B. Perez Bosca, P.S.S. Sepulveda Sanchez, A.M.A. Montero Argudo, J.V.M.M. Jv Monmeneu Menadas, S.M.C. Morell Cabedo (Valencia, valencia and VALENCIA, ES)</i>	
Patients safety as a priority of ultra low contrast and low radiation dose coronary computed tomography angiography one-beat acquisition	P1803
<i>I. Timofeeva, J.L. Sablayrolles, L. Macron, J. Feignoux (Saint-Denis, FR)</i>	
Cross-Modality and Multi-Modality Imaging Topics	
Echocardiographic deformation imaging in arrhythmogenic cardiomyopathy: combining strain pattern recognition with mechanical dispersion for optimal risk stratification	P1804
<i>F.P. Kirkels, Ø.H. Lie, M.J.M. Cramer, T. Edvardsen, P.A.F.M. Doevendans, A.J. Teske, K.H. Haugaa (Utrecht, NL; Oslo, NO)</i>	
Relation of left atrial size and function to atrial arrhythmia burden in patients with paroxysmal atrial fibrillation: a CLOSE-to-CURE echo imaging sub-study.	P1805
<i>P. Debonnaire, J. Depooter, M. El Haddad, T. Strisciuglio, R. Tavernier, S. Knecht, Y. Vandekerckhove, M. Duytschaever (Bruges and Ghent, BE)</i>	
Definition of the cut-off values for left ventricular mechanical dispersion and three-dimensional ejection fraction to stratify the arrhythmic risk in patients with systolic dysfunction	P1806
<i>N. Ruozi, G. Sammarco, R. Tenaglia, E. Secco, F. Boccalini, H. Rodriguez-Zanella, D. Azzolina, T. Barrella, G. Cavalli, P. Aruta, D. Muraru, S. Iliceto, L.P. Badano (Padua, IT; Mexico City, MX)</i>	
Added value of the combined use of left ventricular mechanical dispersion and three-dimensional ejection fraction in the arrhythmic risk stratification of patients with systolic dysfunction	P1807
<i>G. Sammarco, N. Ruozi, R. Tenaglia, H. Rodriguez-Zanella, F. Boccalini, E. Secco, C. Palermo, T. Barrella, D. Azzolina, A. Guta, P. Aruta, D. Muraru, S. Iliceto, L.P. Badano (Padua, IT; Mexico City, MX; Bucharest, RO)</i>	
Potentially predictors of ventricular arrhythmias during one year follow up in STEMI patients	P1808
<i>G. Krljanac, D. Trifunovic, M. Asanin, L. Savic, J.J. Dudic, L. Cucic, V. Sulovic, I. Mrdovic (Belgrade, RS)</i>	
Right ventricle evaluation with conventional transthoracic echocardiography in patients with frequent premature ventricular contractions undergoing ablation	P1809
<i>E. Fuentes, A. Doltra Magarolas, B. Jauregui, D. Penela, K. Duran, L.L. Mont, A. Berruezo, M. Sitges (Barcelona, ES)</i>	
In patients with left ventricular dysfunction, regional mechanical dispersion is closely related to residual left ventricular ejection fraction measured by three-dimensional echocardiography	P1810
<i>N. Ruozi, G. Sammarco, R. Tenaglia, E. Secco, H. Rodriguez-Zanella, D. Azzolina, T. Barrella, C. Palermo, M. Previtero, K. Nguyen, S. Gianstefani, P. Aruta, D. Muraru, S. Iliceto, L.P. Badano (Padua, IT; Mexico City, MX)</i>	
in patients with paroxysmal atrial fibrillation left atrial ejection force can be a predictor of arrhythmia recurrence	P1811
<i>H.R. Rus Horatiu, C.V. Vancsa (Brasov, RO; Bruges, BE)</i>	
Cardiac remodeling and ventricular arrhythmias in exercise-induced arrhythmogenic cardiomyopathy	P1812
<i>O.H. Lie, L.G. Klaboe, L.A. Dejgaard, J. Grimsmo, G. Bosse, E. Hopp, T. Edvardsen, K.H. Haugaa (Oslo and Gardermoen, NO)</i>	

POSTERS SESSIONS

Evaluation of atrial conduction characteristics in adult patients with asthma <i>S. Baysal, M. Has (Sanliurfa, TR)</i>	P1813
From echo images to 3D models: personalised modelling of the heart. <i>S. R. Kharche, W. Xia, T. Peters, C. W. McIntyre (London, CA)</i>	P1814
The influence of right atrial volume on atrial fibrillation recurrence <i>L. Bordi, I. Kovacs, S.Z. Korodi, N. Rat, I. Benedek, T. Benedek (Targu Mures, RO)</i>	P1815
Factors determining long term cardioversion outcome of persistent atrial fibrillation <i>D.A. Kosior, M. Szulc, R. Piatkowski, J. Kochanowski, D. Rabczenko, G. Opolski (Warsaw and WARSAW, PL)</i>	P1816

INDEX

ESC Congress Paris 2019

Together with

World Congress of Cardiology

31 August - 4 September

Spotlight
Global
Cardiovascular
Health

Abstract submission: December - 14 February

Clinical Case submission: Mid January - 1 March

Late-Breaking Science submission: Mid March - 21 May

Early registration deadline: 31 May

Late registration deadline: 31 July



escardio.org/ESC2019



Clinical Cases Sessions

- › Masses and sources of emboli: rare and dramatic cases I.....p.123
- › Masses and sources of emboli: rare and dramatic cases II.....p.70
- › Multimodality imaging: see that case at least once!p.39
- › TOE clinical cases.....p.171

Clinical Seminars

- › Heart failure with preserved ejection fraction: the weight of novel recommendations..... p.125
on echocardiographic assessment of diastolic function.....
- › Cardiac imaging and transcatheter aortic valve replacementp.120
In collaboration with the ESC council of Valvular Heart Disease
- › Cardiac imaging pericardial disease.....p.81
- › Cardiac-oncology (C-O) services : rationale, organization and implementation.....p.75
- › Heart Failure with left ventricular systolic dysfunction: beyond ejection fractionp.68
- › Standard/advanced imaging and anticoagulation in atrial fibrillation.....p.63
- › The interaction between valve disease and heart failure: the role of cardiac imaging..... p.114
- › Which role of cardiac imaging in pre-participation screening of competitive athletes..... p.116

Debate Sessions

- › Tea for two in the operating theatre.....p.114
- › Controversies in imaging coronary artery diseasep.115
- › Debate on imaging in interventions.....p.82
- › Imaging heart valve disease: bloody session..... p.69

Heart Imagers of Tomorrow Moderated Posters

- › Top of the Heart Imagers of Tomorrows: the best of original research among EACVI Young Community..... p.40

Heart Imagers of Tomorrow Poster Sessions

- › Heart Imagers of Tomorrow Clinical Case Poster session 1.....p.47
- › Heart Imagers of Tomorrow Clinical Case Poster session 2.....p.86
- › Heart Imagers of Tomorrow Clinical Case Poster session 3.....p.137
- › Heart Imagers of Tomorrow Poster session 1.....p.48
- › Heart Imagers of Tomorrow Poster session 2.....p.87
- › Heart Imagers of Tomorrow Poster session 3.....p.138

Heart Imagers of Tomorrow Recommended Sessions

- › Hot topics in valvular heart disease.....p.132
- › How to analyze a cardiac Computed Tomography exam - Tips for beginners.....p.130
- › How to analyze a cardio vascular magnetic resonance exam - Tips for beginners.....p.43
- › How to assess regurgitation severity.....p.37
- › How to make a good and effective oral presentation.....p.38
- › How to prepare EACVI echo certification exam.....p.119
- › How to prevent cardiac toxicity.....p.169
- › Indications to cardiac resynchronization therapy (CRT): a multimodality approach.....p.166
- › Step by step Transoesophageal Echocardiogram (TOE).....p.68
- › Workshop on TOE-Focus on Atrial Septal Defect closure (ASD)p.134
- › Workshop on TOE-Focus on critical patient in Coronary Care Unit (CCU).....p.66
- › Workshop on TOE-Focus on heart valve disease.....p.42
- › Workshop on TOE-Focus on Mitraclip.....p.78
- › Workshop on TOE-Focus on prosthetic valves.....p.123

Main Sessions

- › Cardiac exercise imaging: friend or foe?.....p.75
- › Cardiomyopathies and sudden death in athletesp.114
- › Exercise echo in valvular heart disease.....p.125
- › Imaging the aorta and the aortic valve.....p.68
- › Prosthetic valves under the spotlightp.80
- › Screening of athletes - relevance of imaging techniques.....p.63
- › Transcatheter treatment and mitral regurgitation.....p.130
- › Tricuspid regurgitation: update 2018.....p.119

Mobile App Interactive Sessions

- › Cardiac Imaging Quiz - Great Mysteries of Cardiac Imaging.....p.68
- › How often have I told you? Frequent mistakes in imaging.....p.166
- › The imaging challenge: patients with multiple valve disease.....p.75

Meet the Experts Session

- › Meet the Experts session.....p.118

Moderated Posters

- › Applications of cardiac magnetic resonance in modern cardiology.....p.129
- › Cardiac Computed Tomography: present and future.....p.79
- › Cardiac mechanics: from healthy to disease.....p.66
- › Clinical cases moderated - Cardiac magnetic resonance cases from around Europe.....p.40
- › Clinical cases moderated - Clinical use of 3D echo.....p.169
- › Clinical cases moderated - Imaging in native and prosthetic valve disease.....p.168
- › Clinical cases moderated - Masses and sources of emboli in young patients.....p.174
- › Clinical cases moderated - Melting pot of clinical cases.....p.124
- › Clinical cases moderated - Multimodality imaging for aneurysms and dissection.....p.124
- › Clinical cases moderated - Unusual congenital heart disease cases presenting in adults:
the growing role of multimodality imaging.....p.74
- › Insights in hypertrophic cardiomyopathy.....p.119
- › New insight in the evaluation of myocardial systolic and diastolic function.....p.79
- › New roles for cardiac imaging 2018: state of the art.....p.67
- › The diversity of clinical use of stress echo.....p.129
- › What is new in valvular heart disease?.....p.118

Oral Abstract Sessions

- › Young Investigator Award session - Basic Science.....p.66
- › Young Investigator Award session - Clinical Science - The Roelandt's Young Investigator Award.....p.78

Practical Tutorials

- › Assessment of mitral valve (pre and post op) and introduction to assessment of TAVR using
vendor independent software - *Sponsored by TOMTEC IMAGING SYSTEMS GMBH*.....p.17
- › Assessing anatomy and measuring volumes and flow accurately, quickly and reproducibly by 3D.....p.17, p.19, p.22
echocardiography - *Sponsored by Siemens Healthineers*
- › Automated global longitudinal strain why, how and when should it be performed?.....p.23
Sponsored by PHILIPS
- › Clinical cases in the differential diagnosis between athlete's heart and cardiac disease.....p.20
Sponsored by TOMTEC IMAGING SYSTEMS GMBH
- › Clinical usefulness of «fully automated 2D strain software».....p.19
Sponsored by TOMTEC IMAGING SYSTEMS GMBH
- › Current echocardiographic evaluation of the right ventricle.....p.20
Sponsored by TOMTEC IMAGING SYSTEMS GMBH
- › Echo and multi-modality workflows in the cardiovascular image and information management solution.....p.21
Sponsored by PHILIPS

Practical Tutorials (continued)

- › Echocardiographic characteristics of cardiac amyloidosis.....p.17
Sponsored by TOMTEC IMAGING SYSTEMS GMBH
- › Is echo ready for the comprehensive analysis of the left heart chambers? - *Sponsored by PHILIPS*..... p.23, p.20
- › Percutaneous mitral valve repair therapy : from screening to procedure and from technical to clinical.....p.24
Sponsored by PHILIPS
- › Percutaneous mitral valve repair therapy: from screening to procedure and from technical to clinical.....p.24
Sponsored by PHILIPS
- › Photorealistic visualization, the heart like you've never seen it before - *Sponsored by PHILIPS* p.21, p.23
- › Revealing new insights through electronic plane rotation and adjustable multiplane imaging..... p.18, p.21
Sponsored by PHILIPS
- › Structured reporting in congenital heart disease - *Sponsored by TOMTEC IMAGING SYSTEMS GMBH*.....p.22
- › Virtual reality in cardiac imaging: toy or tool? - *Sponsored by TOMTEC IMAGING SYSTEMS GMBH*.....p.22

Poster Sessions

- › Clinical case poster session 1.....p.49
- › Clinical case poster session 2.....p.89
- › Clinical case poster session 3.....p.100
- › Clinical case poster session 4.....p.140
- › Clinical case poster session 5.....p.153
- › Clinical case poster session 6.....p.176
- › Poster session 1.....p.52
- › Poster session 2.....p.92
- › Poster session 3.....p.103
- › Poster session 4.....p.143
- › Poster session 5.....p.155
- › Poster session 6.....p.178

Rapid Fire Abstract Sessions

- › Clinical practice and stress echo in 2018.....p.37
- › Diagnostic and prognostic value of cardiac mechanics.....p.116
- › Echocardiography and valve intervention.....p.127
- › Imaging in heart failure: from physiology to management.....p.65
- › New insights in mitral regurgitation.....p.77
- › New insights into pathophysiology and improved diagnosis and prognosis.....p.133
- › Outcomes and prognostic factors for adult congenital heart disease.....p.42
- › The added value of functional and anatomical imaging in difficult patients.....p.83

Satellite Symposium

- › Contrast echocardiography in clinical practice: Proven efficacy in different clinical settings.....p.73
Sponsored by Bracco
- › Groundbreaking innovations in echo and case examples of better patient care.....p.72
Sponsored by Philips Healthcare
- › How to use advanced ultrasound technologies in daily routine examinations.....p.72
Sponsored by Canon Medical Systems Europe
- › State of the art in echocardiography imaging - *Sponsored by GE Healthcare*..... p.39
- › Tricuspid valve disease - forgotten no more - *Sponsored by Edwards Lifesciences*.....p.39

Special Events

- › EACVI General Assembly.....p.117
- › Inaugural session.....p.44

Special Sessions

> Cardiac Imaging Quiz - Great Mysteries of Cardiac Imaging.....	p.68
> Echo@Jeopardy.....	p.134
> EuroEcho Lecture and Dr Jekyll & Mr Hyde session.....	p.126
> EuroEcho-Imaging 2018 highlights.....	p.170
> Hightech corner session 1 - Machine learning: trendy subject or future practice?.....	p.128
> Hightech corner session 2 - Virtual valve replacement: the next revolution.....	p.167
> Hightech corner session 3 - New concepts in imaging of surgical and transcatheter valvular interventions.....	p.168
> Imaging Highlight from the ESC registries.....	p.80
> Live session - Adding functional evaluation to stress echocardiography: the role of cardiopulmonary exercise test.....	p.120
> The research in imaging in the world - ASE and JSE YIA Winners.....	p.43

Symposium

> 3D imaging in valvular heart disease.....	p.126
> 3D reality and virtual reality in congenital heart disease (CHD).....	p.167
> Advanced critical care Echocardiography.....	p.125
> Age-old questions revisited in 2018	p.127
> Assessment of myocardial viability in clinical practice.....	p.81
> Cardiac amyloidosis: non-invasive imaging choices and yield.....	p.166
> Cardio-oncology: the role of basic and advanced imaging	p.131
> Coronary arteries in paediatric and congenital heart disease.....	p.171
> Difficult cases in valvular heart disease: which imaging technique helps me?.....	p.170
> Echocardiography for preventive cardiology: when and why?	p.77
> Exercise intolerance: a steep mountain to climb.....	p.132
> Genetic cardiomyopathies	p.76
> Hand-Held or FOCUS cardiac ultrasound	p.76
> Hot topics in valvular heart disease.....	p.132
> Imaging and aortic valve stenosis.....	p.63
> Imaging for the assessment of the left atrium.....	p.69
> Imaging the aorta	p.171
> Indications to cardiac resynchronization therapy (CRT): a multimodality approach.....	p.166
> Is there (still) a place for echo on cardiac resynchronization therapy (CRT)?.....	p.82
> Left ventricle (LV) diastolic dysfunction - Made easy.....	p.65
> Longterm consequences of «simple» congenital heart lesions.....	p.121
> Multimodality imaging in valvular heart disease	p.83
> Multimodality myocardial perfusion imaging - insights into the future.....	p.131
> Phenotyping Heart Failure with preserved Ejection Fraction.....	p.121
> Phenotyping hypertrophy using imaging	p.121
> Regulation of imaging devices: physicians as stakeholders.....	p.167
> Rheumatic valve disease	p.70
> Role of imaging in the evaluation of pulmonary hypertension - State of the art.....	p.64
> Stress and exercise imaging in congenital heart disease	p.116
> Technology and imaging in congenital heart disease (CHD).....	p.132
> The added value of strain to widen your clinical skills.....	p.64

Teaching Courses

> 3D Echo for guiding structural interventions in the Cath Lab - This is how you do it.....	p.31
> Advanced (dilemmas).....	p.32
> Advanced Techniques 1.....	p.35
> Advanced Techniques 2.....	p.35
> Aortic stenosis from foetus to adulthood.....	p.33
> Basic (valves and ventricle)	p.32
> Basic course on stress echo.....	p.30
> Basic principles and applications.....	p.35
> Cardiovascular magnetic resonance (CMR) methods and applications.....	p.34

Teaching Courses (continued)

> Challenges in the diagnosis and management of tricuspid regurgitation.....	p.28
> Clinical applications of cardiac magnetic resonance (CMR).....	p.34
> Hot topics in the diagnosis and management of aortic stenosis.....	p.28
> Hot topics in the diagnosis and management of mitral regurgitation.....	p.28
> How to assess myocardial strain?.....	p.29
> Intermediate (interventional and structural heart disease)	p.32
> Myocardial contrast agents and stress echo.....	p.30
> Neonatal haemodynamics: a primer.....	p.33
> Nuclear cardiology in ischemic heart disease	p.36
> Nuclear cardiology in myocardial and vascular disease.....	p.36
> Nuclear imaging for cardiologists: basic principles.....	p.36
> Specialised use of strain.....	p.29
> Stress echo in non ischemic heart disease.....	p.30
> The added value of 3D echo to assess patient outcome.....	p.31
> The basics of 3D echo applied to clinical practice.....	p.31
> The tricuspid valve in congenital heart disease.....	p.33
> What can strain add to ejection fraction?.....	p.29

Teaching Courses Core Curriculum

> Advanced echo techniques I: quantitation of cardiac function and mechanics	p.115
> Advanced echo techniques II: basics, indications, protocols and interpretation.....	p.120
> Basics of 2D cardiac assessment.....	p.69
> Basics of cardiac ultrasound.....	p.64
> Cardiac masses and sources of embolism.....	p.126
> Non-invasive hemodynamic assessment by echocardiography.....	p.131
> Standard and advanced echocardiographic evaluation in cardiomyopathies.....	p.170
> Starter Kit.....	p.34
> Valvular heart disease 1.....	p.76
> Valvular heart disease 2	p.81

A

Agricola E.: 82, 119
 Ajmone Marsan N.: 31, 122
 Al Mallah MH.: 35, 36
 Almeida A M G.: 40
 Anagnostopoulos C.: 36
 Andreini D.: 67
 Antonini-Canterin F.: 76, 122
 Apor A.: 18, 20
 Asch F.: 38
 Asteggiano R.: 75

B

Badano L.: 115
 Beitnes JO.: 130
 Benedetto F A.: 30, 77, 83
 Benyoussef S.: 171
 Bergler-Klein J.: 170
 Bermejo Thomas J.: 63
 Bharucha T.: 127
 Bossone E.: 64
 Brochet E.: 82
 Bucciarelli-Ducci C.: 43
 Buck T.: 18, 21
 Budts W.: 33, 42, 122
 Buechel RR.: 83, 129

C

Cadeddu Dessalvi C.: 75
 Cameli M.: 132, 166
 Capoulade R.: 118
 Cardim N.: 34, 76
 Carerj S.: 125
 Carre F.: 63, 114
 Casella M S.: 131
 Caselli S.: 20
 Caso P.: 70
 Chambers B.: 28, 80
 Chammas E.: 73
 Chioncel O.: 68
 Cikes M.: 167
 Coleman D.: 171
 Colonna P.: 30
 Coman I M.: 64
 Cosyns B.: 43, 68, 134, 167

D

Delelis F.: 21, 23
 Delgado V.: 31
 Di Salvo G.: 116
 Dokainish H.: 65
 Dragulescu A.: 171
 Dreyfus J.: 68

E

Edvardsen T.: 26, 44, 126, 131, 170
 Enache R.: 169
 Ender J.: 32
 Ernande L.: 79, 128, 169
 Evangelista Masip A.: 68

F

Fedele F.: 126
 Flachskampf F.: 125, 166
 Fleishman C.: 127
 Fontes Carvalho R.: 73
 Francone M.: 34
 Fraser A G.: 66
 Friedberg MK.: 132

G

Gaemperli O.: 35, 130
 Gaibazzi N.: 131
 Galderisi M.: 63, 83
 Galiuto L.: 37
 Galli E.: 64
 Garbi M.: 118, 125
 Gati S.: 116
 Gerber B L M.: 166
 Gianstefani S.: 31
 Gillam L D.: 28
 Gimelli A.: 83
 Ginghina C.: 126
 Goldstein S.: 64
 Gorcsan J.: 29, 167
 Guarracino F.: 32
 Gupta R.: 70

H

Ha J-W.: 122
 Habib G.: 76, 114
 Hagendorff A.: 31, 121
 Hahn R.: 39
 Haugaa K H.: 119
 Heidbuchel H.: 63
 Henein M.: 37
 Herbots L.: 82, 132
 Hernandez A.: 128
 Heying R.: 116
 Hristova K.: 70
 Hung J.: 115
 Huttin O.: 119

I

Iliesiu A M.: 81
 Ishizu T.: 66
 Iung B.: 28, 77
 Izumo M.: 127

K

Kamp O.: 171
 Karatasakis G.: 123
 Kasprzak J D.: 20, 64
 Kaul S.: 73
 Khokhar A A.: 125
 Kinsara A J.: 114
 Kitsiou A.: 36, 67
 Knebel F.: 19, 22
 Kolias T.: 29
 Kreidel F.: 24
 Kusunose K.: 69

L

Lancellotti P.: 28, 39, 78, 121, 134
 Li W.: 33
 Lindner J R.: 81
 Linhart A.: 114
 Lowenstein J A.: 80
 Lumens J.: 167

M

Magne J.: 121
 Mankad S.: 40
 Marechaux S.: 23, 75
 Marek J.: 33
 Marwan M.: 35
 Marwick T H.: 66
 Maurer G.: 114
 Maurovich-Horvat P.: 35, 115
 Merke N.: 17, 19, 22
 Mertens L.: 22
 Metra M.: 68, 79, 133
 Mihaila S.: 76
 Miller O.: 132
 Moharem-Elgamal S.: 34
 Monaghan M J.: 31, 72, 78, 126
 Morbach C.: 17
 Mortensen KH.: 167
 Motwani M.: 34
 Mukherjee CM.: 17
 Mumm B.: 22
 Muraru D.: 40, 68, 132

N

Naeije R N.: 65
 Nakatani S.: 77
 Neglia D.: 115
 Neskovic A N.: 76
 Nesser H-J.: 72
 Nicolosi G L.: 69
 Nihoyannopoulos P.: 30, 81
 Nijveldt R.: 133

O

Oh J K.: 69
 Ostenfeld E.: 31
 Ozden Tok O.: 80

P

Paelinck B P.: 124
 Papadopoulos K.: 119
 Parato V M.: 77
 Pasquet A A.: 125, 168
 Pearlman A S.: 29
 Pellerin DP.: 123, 170
 Pena J L.: 75
 Pepi M.: 32, 72, 81
 Pergola V.: 168
 Perrone-Filardi P.: 38
 Petersen S E.: 34, 128, 131
 Picano E.: 30
 Pierard L A.: 28, 30, 69, 121
 Plonska-Gosciniak E.: 70
 Pluchinotta F R.: 167
 Pontone G.: 35
 Popescu B A.: 43, 68, 81, 126, 170
 Pressman G.: 129
 Price S.: 125, 131
 Prinzen F W.: 116

R

Rigolin V.: 166
 Rim S-J.: 76
 Rodriguez Palomares J F.: 34, 129, 171
 Rossi A.: 32
 Rudski L.: 171

S

Sade LE.: 69
 Santoro C.: 169
 Scholte A J H A.: 79
 Schulz-Menger J.: 133
 Schwammenthal E.: 69, 114, 168
 Scislo P.: 20, 21, 23
 Scognamiglio G.: 74
 Seale A.: 42
 Sengupta S.: 124
 Seo Y.: 63
 Separovic Hanzevacki J.: 81, 124
 Shaw L J.: 79
 Shekhar C.: 80, 122
 Simpson J.: 33
 Skalik R.: 63
 Skulstad H.: 29, 75
 Smiseth O A.: 66, 122
 Smith L A.: 74
 Spina S.: 37
 Stankovic I.: 65
 Stefanidis A.: 64, 119
 Swaminathan M.: 65

T

Takeuchi M.: 19
 Tamborini G.: 170
 Thomas J D.: 29
 Trocino G.: 17, 19, 22

U

Underwood S R.: 36
 Unger P.: 75, 170

V

Valsangiacomo Buechel ER.: 129
 Van Den Bosch A.: 18, 21, 33, 122
 Van Melle J.: 122
 Vannan M.: 77
 Vanoverschelde J-L.: 32
 Varga A.: 30, 118, 124
 Vered Z.: 80
 Vergaro G.: 166
 Vidal-Perez R C.: 129
 Von Bardeleben R S.: 24, 82, 130, 168

W

Wahi SW.: 131
 Westwood M.: 40
 Wouters P F.: 32

Y

Yiangou K.: 116
 Yotov Y T.: 126

Z

Zito C.: 116

A

Addetia K.: 452
 Agoston G.: 37
 Agricola E.: 543, 67, P1131
 Ajmone Marsan N.: 1028, 1118, 1630, 543
 Al Ahmari S.: 990
 Al Mallah M.H.: 32
 Almeida A. M. G.: 26
 Andersen N. H.: 440
 Andrade M. J.: 1115, 575
 Anwer S.: P632
 Apor A.: 532
 Aruta P.: 173
 Asch F.: 574
 Athanassopoulos G.: P1211

B

Badano L.: 1049, 1184, 127, 13, 97
 Baghdasaryan L.: P178, P616
 Bandera F.: 1054, 398
 Baratta S. J.: 1178
 Baritussio A.: 174, 25
 Barker P.: 148
 Barone-Rochette G.: 573
 Baumgartner H.: 384, 443
 Beaudoin J.: 49
 Beitnes J.O.: 139, 591, 593
 Beladan C.C.: 1087, 453
 Benfari G.: 1181
 Bergler-Klein J.: 1174, 511
 Bernard A.: 407, 479, 568
 Berrebi A.J.: 102, 987
 Bertrand P.B.: 1599, 505
 Bharucha T.: 1623, 24
 Bhat M.: 1129
 Biering-Sorensen T.: P616
 Bijnens B.: 993
 Binder T.: 487
 Bleakley C.: 15
 Bonello B.: 149
 Bouchez S.: 145
 Brady A.: 1590
 Brochet E.: 583, 588
 Bucciarelli-Ducci C.: 1004, 1006, 1624, 446
 Buechel R.R.: 81
 Burwash I.: 1131

C

Calin A.: 518
 Cameli M.: 1206, P1227
 Cardim N.: 1011, 1206, 1627
 Carerj S.: 407
 Carpenter J.P.: 1193
 Carrabba N.: 600
 Carre F.: 982
 Caselli S.: 1010, 1626
 Cavalcante J.L.: 386, 509
 Chow C.-M.: 1636

Ciampi Q.: 136
 Cifra B.: 1013
 Cikes M.: 994
 Citro R.: 135, P193
 Claus P.: 1595
 Clavel M.A.: 1631, 3
 Cohen A.: 590, 592
 Coisne A.: 991
 Colonna P.: 1114, 603
 Corrado D.: 1009
 Costantino M.F.: 1059
 Cosyns B.: 531, 576
 Crucean A.: 69
 Cuypers J. A. A. E.: 1072

D

Dahl J.S.: 1622
 D'Andrea A.: 1012, 1208, 380
 de Alcantara M.L.: 479, 516
 De Bonis M.: 52
 De Jaegere P. P. T.: 1597, 1600
 De Meester P.: 23
 de Simone G.: 1068
 Dedic A.: 154
 Delgado V.: 1167, 389, 458, 96, P616
 Dentamaro I.: P178
 Derumeaux G. A.: 449
 Desai M.: 1069, 55, 572
 Di Salvo G.: 1641
 Dohi K.: 528
 Dokainish H.: 448
 Donal E.: 1066, 1584, 525, 54, P632
 Dragulescu A.: 71
 Dreyfus G.: 101
 Dreyfus J.: 128
 Duchateau N.: 1143
 Duchenne J.: 1017
 Dulgheru R. E.: 1076, 50
 Duncan A. M.: 985
 Dweck M.: 1, 155, 456, 604

E

Edvardsen T.: 53
 Eitel I.: 28
 El Khoury G.: 1637
 Ender J.: 65
 Erba P. A.: 160
 Erbel R.: 1634
 Eskandari M.: 140
 Esposito R.: 10
 Evangelista Masip A.: 1117

F

Faletra F. F.: 138, 14
 Fassl J.: 68
 Fattouch K.: 1603
 Felix A.: 1142, 582
 Fernandez-Golfin C.: 519

Flachskampf F.: 392, P616
 Fleishman C.: 1127
 Fontana M.: 1586
 Fontes Carvalho R.: 445
 Fox K. F.: 393
 Fraser A. G.: 1146, 1589
 Friedberg M.K.: 1130
 Frigerio M.: 451

G

Gaemperli O.: 1058, 80
 Gaibazzi N.: 488, 59
 Galderisi M.: 1071, 1206, 1619, 390, 515, P1211
 Galli E.: 597, 996
 Galzerano D.: 992
 Garbi M.: 106
 Gargani L.: 1047, 1108, 1208, 520
 Gebauer R.A.: 1190
 Gerber B. L. M.: 1207, 153, 578, 74, P1227
 Giannopoulos A.: 604
 Gimelli A.: 1625, 36, P178
 Goldstein S.: 1056
 Gorcsan J.: 598
 Gorter T. M.: 1065
 Goubergrits L.: 1598
 Grapsa J.: 7
 Grotenhuis H.: 147
 Guarracino F.: 144
 Guazzi M.: 1053, 1105
 Gurzun M. M.: 1581, 173

H

Habib G.: 527, 565
 Hagendorff A.: 391, 485, 504
 Hahn R.: 100, 141
 Hassager C.: 1106
 Haugaa K. H.: 130, 1620, 984
 Havakuk O.: 1052
 Helbing W. A.: 1014
 Helfield B.: 175
 Henein M.: 463, P1211
 Herbots L.: 1576, 402
 Hernandez A.: 1145
 Holte E.: 442, 510
 Hong G. R.: 133
 Hummel Y.M.: 1113, 1186
 Hung J.: 517
 Hunter L.: 70
 Hyafil F.: 159

I

Iriart X.: 22, 584, 586
 Iung B.: 566
 Izgi C.: 570

J

Jaber W.: 1585
Jongbloed M.R.M.: 21
Jung H.: 462
Jurcut R.O.: 56

K

Kagiyama N.: 1182
Kahveci G.: 567
Kasprzak J. D.: 1207, 1210, 16
Kaul S.: 1168
Keramida K.: 1580
Kim Y.J.: 461
Kisslo J.K.: 1017, 401
Klein A.: 1179
Kolias T.: 131
Kosmala W.: 1067, 406
Kowalski M.: 399
Kukulski T.: 1076
Kusunose K.: 1209
Kutty S.: 1209, 1604, 162

L

La Canna G.: 1165, 143, 482, 483
La Gerche A.: 1209, 379, 507, 981
Ladouceur M.: 1639
Lancellotti P.: 110, 1112, 514, P178
Lapinskas T.: P1227
Latib A.: 4
Le Tourneau T.: 1029, 579
Le Ven F.: 1183
Lee S.C.: 526
Liel-Cohen N.: 1642
Liga R.: 161, P1211
Lindner J. R.: 1063
Linhart A.: 1628
Lipiec P.: 1629, 571, P193
Lo Iudice F.: P1211
Loizos S.: P178
Lojewski A.: 99
Lopez Fernandez T.: 512
Lopez L.: 1640
Lovstakken L.: 1144

M

Maceira Gonzalez A. M.: 1193, 73
Magne J.: 1055, 1103, 134, 51, P193
Mahmoud-Elseyed H. M.: 439, 615
Maisano F.: 129
Malhotra A.: 381
Mandoli G.E.: P193
Manka R.M.: 150
Marek J.: 1189
Marino P. N.: 403
Martins E.: 532
Marwan M.: 157, 30, 79
Marwick T. H.: 1070, 1124, 1125, 1175, 450, 61
Mascherbauer J.: 1048

Matskeplishvili S.: 468
Maurovich-Horvat P.: 1000, 1002, 396, 77, 997, 998, P178
Mertens L.: 1596
Michalski B.W.: P632
Miglioranza M.H.: 615, P193
Mihaila S.: 1142, 1180
Minners J.: 2
Modine T.: 1602
Moharem-Elgamal S.: 156, P632
Moller T.: 1016
Monaghan M. J.: 57
Monney P.: 1578
Moon J.: 152
Moreo A.: 418
Morris D.: 405
Morrone D.: 48
Mortensen K.H.: 1638
Motwani M.: 1163
Muehlberg F.: 76
Mukherjee C.M.: 18
Muraru D.: 1119, 1621, 581

N

Nagueh S.: 1111
Natale L.: 27
Neglia D.: 1003, 1008, 602, 82, P616
Neskovic A. N.: 12
Nesser H.-J.: 64
Nijveldt R.: 151
Nishino S.: 176
Nistor D.: P193

O

Oh J. K.: 1185
Ojala T.: 1128
Orwat S.: 72
Ozden Tok O.: P1211

P

Palecek T.: 1642
Papadopoulos K.: 1204
Parashar S.: 466
Patrianakos A.: 1633
Pellikka P.A.: 1062, 1102
Pepi M.: 1060, 1208, 1210, 20, 481, 96
Perez De Isla L.: 468
Perrone-Filardi P.: 1588
Petersen S. E.: 457
Pibarot P.: 385, 441, 989
Picano E.: 1061
Picard M. H.: 1122
Pieles G. E.: 486
Pierard L. A.: 1057
Pino P. G.: 599
Pislaru S. V.: 580
Plana J. C.: 1173
Plein S.: 1169

Podlesnikar T.: 1632, P616
Pontone G.: 1120, 1208, 31, 444, 601, 78
Popescu B. A.: 404
Price S.: 1030, 522
Puchalski M.: 1191, 162
Pugliese F.: 1170
Pushparajah K.: 1593

R

Reskovic Luksic V.: P1227
Reyes E.: 34
Rigo F.: 58
Rigolin V.: 1209, 1210
Rosca M.: 460
Rossi A.: 29, 66

S

Sade L.E.: 1087, 132, 529, P632
Salustri A.: 1028, 1116, 467
Santoro C.: 9
Sarubbi B.: 1192
Savelieva I.: 387
Scherrer-Crosbie M.: 577
Schnell F.: 983
Scholte A. J. H. A.: 1579, 158, 83
Schwammenthal E.: 1104
Sebag I. A.: 465
Sengupta P. P.: 1064, 1126, 8, 995
Senior R.: 137, 489, 60
Shaw L. J.: 1001, 999
Shrivastava S.: 464
Simova I.: 11
Simpson J.: 1204, 146
Sitges M.: 1207, 388, 486
Skinner H.: 418
Skulstad H.: P1227
Smiseth O. A.: 1110, 1187
Smith L.: 1074
Sohn D. W.: 524
Soliman H.: 1107, 1176, P632
Soliman O.I.I.: 1601
Sozzi F.B.: 1587, 37
Spina S.: 1177
Stankovic I.: 1207, 523, 596
Stefanidis A.: P632
Stein J.-I.: 1075
Surkova E.: 454
Suter T. M.: 513
Swaans M. J.: 1166, 585, 587
Swaminathan M.: 85
Szymanski P.: 1592

T

Takeuchi M.: 62
Ten Cate T.J.F.: 1171
Thomas J. D.: 1005, 1007, 5
Thomas L.: 1172, 382, 455
Tournoux F.: 1635
Tsonev S.V.: P1227

U

Ukkonen H. J.: 35

Uriel N.: 1109

V

Valsangiacomo Buechel E.R.: 75

Valverde Perez I.V.: 1121, 1594

Van Camp G.: 126

Van Den Bosch A.: 1073

Van der Maaten J.: 17

Vandervoort P. M.: 394

Vannan M.: 1051, 1050

Vanoverschelde J.-L.: 19

Verberne H.J.: 33

Vergaro G.: 1583

Verwerft J.: 1188

Vidakovic R.: 521

Vieira M.: 508

Venco G.: 1582

Vinereanu D.: 400, 564

Voigt J. U.: 1591, 480, 595, 6

Von Bardeleben R. S.: 108, 459, 484, 589,
594, 98, 986

W

Wahi S.W.: 395

Watanabe N.: 1164

Wechalekar K.: 84

West C.: 1577

Westwood M.: 397

Wouters P. F.: 142

Wunderlich N. C.: 104

Y

Yamada H.: 530

Z

Zannis K.: 988

Zhou X.: 1050

Zito C.: 383

A

- Aaberge L.: 1019, 1134
 Aakhus S.: P1464
 Aalberts J.: 1037
 Aalen J.: 415, 424, 552, P1559, P1706, P712
 Aaroe J.: P979
 Abayazeed R.: 1098
 Abayazeed R.A.: 477
 Abayazeed R.M.: 92
 Abazid R. M.: P213
 Abbas T.: 493
 Abd El Gawad H.S.: 477, P239
 Abd El Hamid M.S.: P677
 Abd El Hay M.A.: 477, P239, P677
 Abd Elsamad S.: 1095, P245
 Abdallah M.: P1224
 Abdallah M.A.R.W.A.: P628
 Abdel Ghani B.: P200
 Abdel Raouf M.: P1511
 Abdel-Hay M.A.: 92
 Abdelkareem A.: P1285
 Abdelkarim O.: 1098, P216, P247, P793
 Abdelnabi M.: P239
 Abdelnaby M.: P793
 Abdulhadi B.S.: P1715, P1727
 Abdullaeva S.Y.A.: P699
 Abdulrahim H.: 1080, P1387, P1780, P817
 Abecassis J.: P327
 Abellan Huerta J.: 1089
 Abellas M.: 1132, 119, P1515, P656, P718, P956
 Abellas Sequeiros J.M.: P1446
 Abellas Sequeiros M.: 1085, P1322, P1731, P270, P663, P720, P874, P885
 Abelow A.: 541
 Abete R.: P747
 Aboal J.: P197
 Abo-Eldahab K.: P670
 Aboul-Fadl S.: P909
 Abouwda Y.: P251
 Abraham T.: P1328
 Abreu A.: 422, P311
 Abreu G.: P1435
 Abreu J.: P1506, P311, P967
 Abundis-Marquez E.E.: P1300
 Abushahba G.: 87, P1443, P228, P262
 Achitei I.: P1482
 Acquaro G.D.: P1572
 Adam M.: P1786, P321
 Adam R.: 1160
 Adamo E.: 1094
 Adavane-Scheuble S.: P1523
 Adawi S.: P732
 Addetia K.: 1038, P318, P324
 Adhiraja S.: P1471
 Adigopula S.: 1645, P1504, P1659
 Adla T.: P1449
 Agafonov D. V.: 1647
 Agapito A.: 164, 1648, P1280, P1657, P673
 Agapito A.F.: 166
 Agarkov M.: P683
 Agati L.: 1154, P1489
 Agelaki M.: P1349, P205, P313, P921
 Aggeli C.: P1362, P1779, P773
 Aggeli K.: P945
 Aggelis A.: P1362, P1779, P773
 Agmon Y.: P273, P871, P872
 Agnese V.: P1572, P355
 Agostinho J.: P1499, P1534, P1781
 Agostinho J.R.: P1783, P724, P876
 Agoston Coldea L.: P233
 Agostoni P.: 123, P1441
 Agricola E.: 1133, 612, P1282, P1368, P279, P845
 Agrifoglio M.: P715
 Aguiar J.: P1545
 Aguiar Rosa S.: P1506, P1657, P1687, P311
 Aguiar-Ricardo I.: P1534, P1783, P724, P876
 Aguilar F.: P779
 Aguilera Agudo C.: P1348, P900
 Ahmad N.: 493
 Ahmad S.: P1261
 Ahmadi A.H.M.A.D.I.: P1414
 Ahmadi Z.H.: P827
 Ahmed A.: P246
 Ahmed Ali A.: P909
 Ahmed E.: P670
 Ahmed M.: P838
 Ahmed S.: P1549
 Ahn H.S.: P1401, P1690, P774
 Ahn J.: P860
 Aichinger J.: P918
 Aiello M.: P653
 Aiguade S.: 432, 435
 Airale L.: P741
 Airo E.: P1532
 Ait-Ali L.: 165
 Aivalioti F.: P1445
 Ajassa C.: P635
 Akasaka T.: 607, P1315, P1762
 Akashi Y.: 1135
 Akashi Y.J.: P1352
 Akdeniz C.A.N.S.U.: P1714
 Akdeniz C.S.: 1650
 Akhtar M.: P800
 Aktemur T.: 1650
 Aktemur T.U. .B.A.: P1714
 Akturk F.: P1241, P620
 Akturk S.: 1101, P840
 Al Ali J.: P1260
 Al Humaid M.: P1786, P321
 Al Madani W.: P1439
 Al Maghrabi A.: P239
 Al Mulla A.: 473
 Al Saikhan L.: P644, P645
 Al Shamkhany W. S.: 500
 Alak C.: P1436
 Alamanni F.: P715
 Alashkar T.: P300
 Alassas K.: P1786, P321
 Alataresh E.: P854
 Alba Sanchez M.: P723
 Albahadely K.: 493
 Albakshy F.: 495, 88
 Albana Doko A.D.: 1081
 Albanese A.: P819
 Albani S.: P286
 Alberca Vela M.T.: 1652
 Albert X.: P197, P647
 Albizreh B.: 1643, P1443, P1471
 Al-Borikan S.: P1363, P1400
 Al-Bozom I.: 473
 Albrigi L.: 1094
 Albu S.: P680
 Alcocer Ayuga M.: P1250
 Alcon Duran B.: 1652, P1250
 Aldalati O.: P1716
 Alegret-Colome J.M.: P1799
 Alegria S.: 1100, P1361, P1367, P1562, P1673, P666, P764, P980
 Alekhin M.N.: P1358
 Aleksandric S.: P1307, P263, P682, P735, P803, P912
 Alekseeva D.Y.U.: P726
 Alexandra Briosa A.: P625
 Alexandrescu A.: P1277, P307, P822
 Alexandrescu M.: 1160
 Alexandridi O.Y.: P1738
 Alexandrino C.: P253
 Alexandrov M.: P766
 Alfakih K.: 431, P975
 Alfano D.: P925
 Alfieri O.: P1282, P279
 Alfieri S.: P948
 Alfonso F.: 1097, 1615, P1568, P700
 Alfonzetti E.: 540, P1563, P1679, P297, P915
 Alhamshari Y.S.: P1715, P1727
 Alhede C.: P1328
 Ali A.: 493, P1766, P235, P627, P819
 Alibani L.: P730
 Alieva R.: P699
 Alizadehasl A.Z.I.N.: P1414
 Al-Khulaifi A.: P661
 Alkuwari M.: 1643, 87, P1443, P228
 Allain-Nicolai A.: P1554
 Allaire S.: 535
 Allen B.L.: 1162
 Almaghraby A.: 1095, 1098, 93, P1686, P215, P216, P245, P246, P247, P670, P793, P828, P829
 Almeida A.: P1499
 Almeida A. G.: P1534, P1783, P724, P876, P884
 Almeida A.G.: P1781
 Almeida A.M.G.: 1198
 Almeida A.R.: 1100, P1353, P1361, P1367, P1562, P1673, P764, P980
 Almeida C.: P1663
 Almeida Gutierrez E.A.G.: P1372, P1372, P339
 Almeida P.: 86, P846
 Almeida P.B.: P227
 Almeida R.: P222
 Almeida S.: 1100
 Almodares Q.: P781
 Almulla A.: P854
 Alonso Fernandez V.: P310
 Alonso Martin J.J.: P1250, P1377

Alonso Perez L.: P1226, P192
 Alonso Salinas G.: 119
 Al-Saffar F.: 470
 Alskaf E.: P875
 Altavilla G.: P730, P866
 Altay H.: P1222, P181
 Althouse A.: P970
 Althunayyan A.: P1363, P1400
 Altizio S.: 612, P1368
 Altman M.: 1045, P1459, P1468
 Altun A.: P618
 Alvarado T.: 1615
 Alvarez Gonzalez C.: P310
 Alvarez Rodriguez L.: P1662, P1665
 Alvarez Roy L.: 1077, P348
 Alves Guimaraes J.P.: 472, P1726
 Alves M.: P886
 Alves P.: P1424, P1526, P323, P662
 Alves S.G.: 114
 Alvino F.A.: P337
 Aly Y.: 93
 Alyavi A. L.: P1354
 Amadei G.: P802
 Amado J.: P1256, P835
 Amano A.: P1247
 Amano M.: P1788
 Amano R.: P1574
 Amanullah M. R.: 478
 Amanullah M.R.: P664
 Amao Ruiz E. J.: P713
 Amar M.R.: P328
 Amaro A.: P719
 Amaro C.: P1499
 Amati S.: P230, P808
 Ambrosini I.: P883
 Ambrosioni J.: 437
 Ambrozic J.: 1608, P1712
 Ambrus N.: P1739
 America R.: P362, P377, P919
 Amhalhal I.: P1213
 Amorim S.: 86
 Amorouayeche F. Z.: P202
 Amorouayeche Z.F.: P674
 Amraoui A.: P1268
 Amuthan V.: P1417
 Amzulescu M.S.: 1025, 1160
 Ana Francisco T.É.C.: P1215
 Anagnostopoulou A.: P842
 Ananth R.V.A.: P1417
 Anastasakis A.: P773
 Ancedy Y.: P1523
 Ancona F.: 612, P1282, P1368, P279, P845
 Andersen N.H.: P979
 Andersen O.S.: 415
 Anderson J.: P837
 Anderson S.: P971
 Ando K.: P1460
 Andova V.: P1426
 Andrade A.: P1252
 Andrade J.L.: P1369
 Andrade M. J.: P1360, P1683

Andrade M.J.: P327, P938
 Andrea R.: P1467
 Andreadou I.: P1342, P913
 Andreeva A.A.: P619
 Andrei C.: P680
 Andreini D.: 547, 558, 559, P1540, P1556, P1776, P347
 Andresen K.: 536
 Andriani M.: P805
 Andronic A.A.: 1026
 Andruszkiewicz P.: P1403
 Angelescu C.M.: P1277, P307, P822
 Angelico G.: P805
 Angelillis M.: P883
 Angelis A.: P945
 Anifanti M.: P1325
 Anilkumar S.: 473, P1471
 Anjos R.S.: 502
 Annabi M.S.: P1287
 Annoni A.: 547, 559, P1441, P347
 Annoni A.D.: P1540, P1556
 Annoni G.: P1684
 Anselmi F.: 1201
 Antenucci M.: P934
 Anton Ladislao A.: P811
 Antona C.: P332
 Antonello Cuccaro A.C.: 89
 Antonini-Canterin F.: 1020, P1728
 Antonio M.: 1648, P1280
 Antonio N.: P323
 Antonucci D.: P722
 Antonopoulos A.: P802
 Antunes H.: P810
 Antunes N.: P1435
 Anwar A. M.: P776
 Apolinario I.: P678
 Apor A.: P1407, P1434
 Apostolakis S.: P824
 Aquaro G.D.: P917
 Aramendi J.I.: P655
 Araujo Filho J.A.: P807
 Araujo P.: P227
 Araujo P.M.: 116, P1236, P1240
 Arbucci R.: P1751, P1760, P306, P704
 Arcari L.: P211, P623
 Arce Salinas C.H.: P1752
 Archakov E.A.: P255
 Areed M.F.: P315
 Areias J. C.: P352
 Arena R.: P978
 Arendt C.: P211, P623
 Argyri O.: P1433
 Arias Godinez J.A.: 1137, P1752
 Arias P.: P1755
 Arias-Godinez J.A.: P1323
 Ariff B.: P837
 Arinsoy S. T.: P893
 Aristizabal D.: P903
 Aritaka S.: P1214, P621
 Ariyoshi T.: P969
 Arizon Del Prado J.M.: P1337, P895
 Armado K.: P1363, P1400

Armenis I.: P1462, P1709
 Arnau Vives M.A.: P1720
 Arnoult F.: P1798
 A'roch A.: P296
 Aroch R.: P296
 Aronson D.: P273, P871, P872
 Arpino G.: P1461
 Arrazola J.: P1555
 Arregui Lopez A.: 94, P725
 Arrioja A.: P1721
 Arrioja A.E.: P358, P363
 Arsenault M.: P1287
 Artman M.: P1763
 Aruta P.: 537, 538, 544, P1517, P1718, P1771, P1806, P1807, P1810
 Arvizu-Rivera R.I.: P1300
 Arzumanyan E.: 1152
 Asada S.: P760
 Asakawa K.: P1478, P1485, P282
 Asanin M.: P1761, P1808, P263, P308
 Ascione L.: P186, P882
 Ascione R.: P186, P882
 Ashcheulova T.: P708
 Ashikaga K.: P629
 Ashour A.: P670
 Ashour S.A.: P677
 Ashraf M.: P1693, P963
 Ashurov F. A.: 1647
 Asla C.: P1670
 Asla Ormaza C.: 94, P1425, P223, P725, P761
 Aslan A.: P221
 Asmer I.: P732
 Assabiny A.: P1351
 Assanta N.: 429
 Assawakawintip C.H.A.L.A.I.: P1379
 Astarita A.: 1083
 Astarita C.: P925
 Astarita R.: P925
 Astigarraga Aguirre E.: P811
 Astrid A.: 434
 Ataide R.S.: 502
 Atenska-Pawlowska J.: P1403
 Athanassopoulos G.: P1462, P1709
 Atmadikoeseomah C.A.: P1553, P278
 Attenhofer Jost C.: 542
 Attenhofer-Jost C.: P1308, P878, P898
 Atteya A.: 1095, P246, P828
 Attia W.A.E.L.: P776
 Auensen M.: P1452
 Augusto J.: 1079, P1267, P1661
 Aung N.: P1548
 Aurich M.: P265, P287
 Aurrekoetxea Bajeneta G.: 94, P1425, P223, P725, P836
 Aurrekoetxea G.: 1607, P1670, P761
 Aursulesei S.: P844
 Ausra Kavoliuniene A.K.: P1292
 Austin C.: P1276
 Avci Demir F.: P1716
 Avenatti E.: P741
 Avila Escribano C.: P1662
 Aviles Toscano A.L.: P1465

Avornyo E.: 431
 Avraamides P.: P1270
 Avramovic J.: P1685
 Avvedimento M.: 423, P1320
 Awamleh Garcia P.: P1377
 Ayala-Leon M.: P779
 Ayaz M.: P221
 Ayca B.: P1531
 Aydinalp A.: P816
 Azcarate Aguero P.M.: P1226, P192
 Azevedo Coutinho C.: P1781
 Azevedo D.: P1232, P707
 Azevedo J.: P690
 Azevedo O.: P1463, P1724, P293, P806, P809, P810
 Azevedo P.: P1256, P252, P835
 Azman Juvan K.: P179
 Azmy M. M.: P1238
 Aznaouridis K.: P945
 Azpiri-Lopez J.R.: P1300
 Azzam E.: P1729
 Azzolina D.: 544, P1806, P1807, P1810

B

Babity M.: P1770, P1772
 Babu-Narayan S.: P237, P864
 Back M.: 1080
 Backe J.: P1795
 Backhaus S.J.: 1155, 1196, 1199, P1544
 Badak O.: P1436
 Badano L.: P1517
 Badano L.P.: 537, 538, 544, P1217, P1718, P1771, P1806, P1807, P1810
 Badea R.: 499, P1223
 Badiani S.: P1363, P1400, P1430
 Badiu C.: P233
 Badran H.M.: 1042, P1494, P300
 Badr-Eslam R.: P716
 Bae Y.-G.: 561
 Baena Herrera J.: P1348, P900
 Baessato F.: 117, P624, P899
 Baev A.: P977
 Baggiano A.: 123, 547, 558, 559, P1540, P1556, P347
 Bahlay B.: P1481
 Baiocchi C.B.: P334, P337
 Bajwa G.: 1084
 Bakero L.: P686, P687
 Bakhit A.: P1251
 Bakosis G.: P1528
 Balaeva M.A.: P1573
 Balanescu S.M.: P233
 Balciunaite G.: P1312, P902
 Baldenhofer G.: P636, P642, P784
 Balderas Munoz K.: 1137, P1752
 Balderas-Munoz K.: P1323
 Baldi C.: P1479, P320
 Baldinger L.: P918
 Balinisteanu A.E.: P780
 Balkhausen K.: P1311, P201, P280
 Ballesteros E.: P647
 Balogh Z.: P1341, P1346, P743

Baltabaeva A.: P880
 Baltruniene V.: P902
 Balys M.: P1402
 Banali R.: P1551
 Bandera F.: 540, P1365, P1370, P1404, P1563, P1564, P1567, P1679, P297, P641, P915
 Bando M.: P1375, P1574
 Banescu C.: P1677
 Baneva N.: P1801
 Bang J.I.: 607
 Banga K.: P343
 Banner N.: P1493
 Banovic M.: P978
 Banys R.: P224
 Baptista A.: P1429
 Baptista R.: P1526, P1719, P976
 Baraccano R.: 172
 Barambio Ruiz M.: 1090, P814
 Baranova E.I.: 419
 Barba Cosials J.: P1226, P192
 Barbagiannis D.: P787
 Barbati G.: P286
 Barbato E.: P1346, P651
 Barbeito-Caamano C.: P927
 Barbieri A.: 1035, P1295, P1728, P924, P926
 Barbieri E.: 1094, 1612, 501, 91, P1520, P1730, P1733, P187, P232
 Barczi A.: P630
 Barczuk-Falecka M.: P640
 Barczynski M.: 168
 Bardan H.: P246
 Barison A.: P1532, P220
 Barittusio A.: P1547
 Barker A.J.: 1162
 Barker P.C.A.: P756
 Barki M.: P915
 Barkov I.V.: P1738
 Barletta G.A.: P240
 Barletta M.: 1618, 540, P1365, P1370, P1564, P1567, P641
 Barletta V.: 1132, P289, P718, P956
 Barone-Rochette G.: P879
 Barosi A.: 95, P332, P906
 Barrabes J.: 1195
 Barracano R.: 167, 169, 171, P744, P930
 Barras N.: 412
 Barreiro Perez M.: P1662, P1665
 Barrella T.: P1806, P1807, P1810
 Barros D.S.: P1369
 Barros H.: P352
 Barros-Filho A.C.L.: P1350
 Bartczak-Rutkowska A.: 168
 Bartolacelli Y.: 1035, P1295, P926
 Bartolome S.: P229
 Bartorelli A.L.: 547, 558, 559, P715
 Bartos D.: P1517
 Bartosh-Zelenaya S.J.: P236, P619, P759
 Bartykowski A.: 434, P1407, P1434
 Basso G.: P638
 Bastarrika Aleman G.: P1226, P192
 Basto L.: P1671
 Bastos Fernandez M.: P1662, P1665

Batalov R.E.: P255
 Batar S.: P691
 Bathe M.: P636
 Batista F.: P1427, P681
 Batumalai V.: P739
 Baturova M.A.: P736
 Baudet M.: P936
 Baudouy D.: P1518
 Bautista-Bautista E.G.: P1413
 Bava A.: P730, P866
 Bax J.J.: P345
 Bayat F.: P1514
 Bayes De Luna A.: P903
 Bayram T.: P1492, P1498
 Baysal S.: P1813
 Beaufort C.: P1314
 Becher H.: P1488, P1490
 Bech-Hanssen O.: P1378, P277, P291
 Becker D.: P1558
 Bedard E.: P1287
 Bednarova V.: P1527
 Bedogni F.: 1618, P198, P199, P200
 Beerbaum P.: P1544
 Beeri R.: P732
 Beeton I.: P880
 Behrooj S.: P260
 Behzadnia N.E.D.A.: P827
 Beitnes J.O.: 1134
 Beladan C.: P825, P869, P922
 Beladan C.C.: 1039, 1043, P801, P966
 Belchior Campelo M.: P831
 Belcik T.: 112
 Beldekos D.: P787
 Beleslin B.: 1044, 1147, P1302, P1307, P682, P735, P803, P912
 Belkhir K.: P870
 Belkova P.: P322
 Bellacosa I.: 553
 Bellagamba C. C. A.: P1792
 Bellavia D.: P1572, P355, P917
 Belli O.: P1684
 Bellini C.B.: P334, P337, P855
 Bellino M.: P1479, P1728, P320
 Belloli L.: P1535
 Bellsham-Revell H.: P1276
 Ben Ali Z.: P1767
 Ben Brahim K.A.R.I.M.: P1224, P628
 Ben Halima M.: P1767
 Benas D.: P1342, P1528, P953
 Benats M.: P1268
 Benatti G.: 1086, P1660, P926
 Bencini C.: P1737, P865
 Bendz B.: 1134
 Benedek A.: 562
 Benedek I.: 562, P1815, P340, P341, P343, P344
 Benedek T.: 562, P1815, P340, P341, P343, P344
 Benedetto F.: 1020, P1728
 Benedicto A.: 1615, P700
 Beneduce A.: 612, P1368, P845
 Benegas Arostegui A.: P811

Benesova K.: P1571	Biedron M.: P360	Bolohan R.: P365
Benetis R.: P933	Biering-Sorensen S.B.S.: 1021	Bombardini T.: 41
Benfari G.: 1136, 117, P1329, P1347, P1411, P1412, P1450, P1456, P1484, P1566, P196, P624	Biering-Sorensen T.: P1290, P901	Bonanomi C.: P796
Benito Gonzalez T.: P348	Biering-Sorensen T.B.S.: 1021, P897	Bonapace S.: 1094, 1612, 501, 91, P1520, P1730, P1733, P187, P232
Benkali Z.: P304	Biffi B.: P325, P944, P971	Bonassin Tempesta F.C.: 542
Benkhedda S.: P1385, P1736, P202, P674	Bigalke B.: 1155, 1196, 1199, P1544	Bonatti J.: P1659
Bennani M.: P250	Bijnens B.: P369, P737, P905	Bonifazi M.: 1201
Bentham J.: P853	Bilato C.: P1668	Bonnad C.: 1195
Benvenga R.: P1479	Billing M.: P1544	Bonnefous O.: 535
Beraud A.: P1523	Binaco I.: P747	Bonow R.O.: 1162
Berdar P.: P1308, P878	Binda G.: 553, 612, P1282, P1368	Bonzani G.: P186
Berenguer Jofesa A.B.J.: P356	Binder T.: P353, P716, P920	Borda B.: P1388, P1765
Berezin A. E.: P734	Bingcan J.: P1326	Bordachar P.: 1022
Berezin A.A.: P734	Bingcan R.A.: P1326	Bordi L.: P1815
Bergamini C.: P1329, P1347, P1411, P1412, P1450, P1456, P1566, P899	Bingol G.: P1442	Bordin G.: P638
Bergler-Klein J.: P716	Biolo M.: P286	Borelli E.: P363
Bergmann T.: P757	Bionda A.: P1791	Borg A.: P654
Beringuilho M.: 1079	Birne R.I.T.A.: P1360	Borges S.: 472, P1726
Berkovich G.: P1274, P1432	Bisogno A.: P843	Boriani G.: 1035, P1295, P926
Berlot B.: P1547	Bistola V.: P1528	Boricic-Kostic M.: P735
Bermejo J.: P1799	Bitto R.: P862	Borio G.: P196
Berna G.: P1773	Bjelic S.: P772	Borizanov-Petkova A.: P637
Bernard S.: P242	Bjelobrk M.: P772	Borodzic S.: P1536
Bernardi G.: P1448	Bjerring A.W.: P1345, P1452	Borregan M.: P1542
Bernardi S.: 1083	Blaco L.: 95, P332	Borrego Rodriguez J.: 1077
Bernardini A.: P240	Blanc A.: 539	Borrelli N.: P219
Bernardo M.P.L.: P328	Blanco Herrero O.B.H.: P356	Borrelli V.: P731
Bernstein D.: 1037	Blankenberg S.: P1655	Bortone A.S.: P653
Bernstein J.: 1037	Blazakis G.: P1750	Bosch D.: P197
Berruezo A.: P1809	Blazek S.: P1486	Bosch J.G.: 1040
Berry I.: P373, P646	Blazquez M.A.: P1281	Bosevski M.: P1801
Bertello C.: 1083	Blondheim D.S.: P732	Boshchenko A.: P924, P977
Berteotti M.: P240, P722	Blondin S.: 1037	Boskovic N.: 1147, P1302, P682, P803
Bertoldi L.: P845	Bloomfield G.S.: P756	Bosotti L.: P1737, P865
Bertoletti A.: P1230, P796	Boccalini F.: P1806, P1807	Bosse G.: P1812
Bertoli Ingles E.: P1758, P775	Boccaro F.: P1523	Bossone E.: 1133, 1149, 1153, 44, P1535, P1786, P321, P919
Bertolin Boronat J.: P1764, P704	Bocchi E.A.: P807	Botezatu B.S.: P626
Bertolin J.: P306	Bocchino M.: 1149	Botezatu S.: 1043, P365, P801, P825, P869
Bertrand P.B.: 45	Bochud M.: 412	Botoro T.: P733
Berzal B.: P229	Bocinca C.: P697	Botti G.: P1405, P1409
Besler C.: P1486	Bocquillon L.: P1557	Bouafia M.T.C.: P304
Bettencourt N.: 546, P1232, P1667, P1671, P1705, P707	Boczar K.: P372, P648, P649	Boubertakh R.: P1548
Bevilacqua F.: P1563	Bodi V.: 1195	Boudiche S.: P1767
Bezkorovainyi P.: P766	Boe E.: P1706, P712	Boughzela E.S.S.I.A.: P1224, P628
Bezy S.: 413, 545, 551, P962	Boehm M.: P1316	Boukadir F.: P304
Bhardwaj P.: 47	Boergermann J.: P1569, P333	Boukantar M.: 556
Bharucha T.: P752	Boffetti F.: P960	Boulanger J.: P733
Bhatnagar G.: P1659	Bogaert J.: P804	Boulet C.: 430, P1798
Bhattacharyya S.: P1363, P1400, P1430	Bogale N.: P717	Bouma B.: P905
Bian A.: P844	Bogdanova V.: P1759	Boumpas D.: P1342
Bianchi Bosisio N.S.M.: P1404	Bogers A. J. J.: P349	Boureau A.S.: P283
Bianchi R.: P362, P377	Bognar C.: P1775	Bourne H.: P1229
Bianchi V.: P1565	Bognar C.S.: P1770	Bouzas A.: P1720
Bianco F.: P1244, P1793	Bogov I.: P770	Bouzas-Mosquera A.: P927
Bianco M.: 497, P1298	Bogunovic N.: P1569, P333	Bovenzi F.: P928, P929
Bianconcini M.: 1082	Boguslavskyi A.: 1139, P873	Boveri S.: P1567
Bibby D.: P1328	Bohbot Y.: P870	Bowes M.: P1278
Bica R.: P680	Boingiu R.: P365	Boyaci N. B.: P893
Biddeci G.: P638	Boldrini M.: P798	Boyd A.C.: 1045
	Bollati M.: 1083, P1529, P741	Boyd J.: P1509
	Bollettino M.: 1082	
	Bologna A.: P1309	

Bozzano V.: P1441
 Bracco A.: P866
 Bradisteanu S.: P822
 Braga C.: P1435
 Braga P.: P1705
 Bragantini G.: P1329, P1347, P1411, P1412, P1448
 Bragato R.M.: P226, P657
 Brainin P.: P901
 Braksator W.: P256, P257
 Bramlage P.: P653
 Branco L.: P1415, P1657, P673, P728, P967
 Branco Mano T.: 164, 166, P1687
 Branco P.: P1360
 Brand A.: P1235, P784
 Brand A. M.: P634, P636, P642
 Brandao I.: P678
 Brandao L.: 1100
 Branea H.: P794
 Bras D.: P1545, P938
 Brasselet C.: P1314
 Bratanoff M.: P1697
 Bravo I.: P761
 Bravo Martinez I.: 1607, 94, P1425, P1670, P223, P725, P836
 Brazzale A.: P209
 Breitbart P.: 609
 Brekke P.H.: 1019
 Breskvar U. D.: P1678
 Brestovac M.: P951
 Breunig M.: P1785, P195
 Brida M.: 167, 169, 171, P930
 Bringhen S.: P795
 Briosia A.: 1100, P1353, P1562, P1673, P666, P764, P980
 Britain J.: 1645
 Britain J.A.: 1084
 Brito C.R.: P1418
 Brizido C.: P1683, P327, P938
 Brodin T.: P1355
 Broullon F.: P927
 Brown P.: P1459, P1468
 Bruere D.: P879
 Brugada R.: P197, P647
 Brugaletta S.: P1467
 Brugger N.: P1777
 Brugger S.: P1777
 Bruja R.: P780
 Brun S.: P1552, P646, P911
 Brunec-Keller M.: P1308
 Bruni C.: P1535
 Bruno G.: P741, P795
 Brushundi M.: P757
 Brusoni D.: P378
 Brutaru M. G.: P1416
 Bruzzese D.: P1789
 Bryant J.A.: 1203
 Brytkova Y.: P1303
 Brzewski M.: P640
 Bucci I.: P1793
 Bucciarelli V.: 1027, P1244, P1793, P740, P744
 Bucciarelli-Ducci C.: P1547
 Buck T.: P892

Bucurenciu C.: 1093, P1796
 Budaj A.: 90, P688
 Budde R.P.J.: P968
 Budnik M.: P1319, P1364, P1723
 Bugaite J.: P1312
 Bulei C. M.: P1691
 Bulgari S.: 91
 Bulian F.: P1566
 Bull S.: P1311, P201, P280
 Bunc M.: 1608
 Buompane G.: P219
 Buonauro A.: 118, P1333, P371
 Burdarska L.: P1340
 Burg M.R.: P654
 Burke D.: P923
 Burneikaite G.: P1546
 Bursi F.: 1035, P1295, P1737, P865, P926
 Burup Kristensen C.: P1228
 Butakoff C.: P369
 Butoi E.: P1338
 Byrne J.: 431, P1716, P975
 Byun J.S.: P860
 Byun Y.S.: P268

C

Cabac I.: P794
 Cabac Pogorevici I.: P1396
 Caballero P.: 1097, P1568, P700
 Cabral M.: P352
 Cabrita M.: P251
 Cabunac P.: P1237, P203, P299
 Cacela D.: P1415, P1506, P728, P967
 Cacicedo Fdez De Bobadilla A.: P836
 Cacicedo Fernandez De Bobadilla A.: P811
 Cadenas Chamorro R.: P769
 Cadil D.: P295, P825, P869, P966
 Caeiro A.: P1545
 Caetano F.: P1682
 Caggegi A. M.: P329
 Caiani E.G.: P1551
 Caidahl K.: P711
 Caires G.: P1444
 Caires G.C.: 1616, P1253
 Calabro P.: P362
 Calca R.I.T.A.: P1360
 Caldeira D.: P1673, P884
 Cali' Quaglia F.: 497
 Calin A.: 1039, 1043, 496, P1218, P1416, P801, P869, P922, P966
 Calin C.: 499, P869
 Calin D.C.: P1218
 Calisto J.: P976
 Callizo Gallego R.: P1764
 Callizo R.: P1751, P704
 Calmac L.: P191
 Calo R.: P355
 Calogero E.: P883
 Caloian B.: P844
 Calvillo Arguelles O.: P1752
 Calvillo-Arguelles O.: 1137, P1323
 Calvo Blanco J.: P693
 Calvo Cuervo D.: P693
 Calvo F.: P1720, P1799, P279, P845
 Camaioni C.: P1554
 Cameli M.: 1034, 1136, 114, 1201, P196, P639, P935
 Cameli M.C.: P334, P337
 Camilleri W.: P1257, P654
 Camino Lopez A.: P1281
 Campbell R.T.: P765
 Campelo M.: P222
 Campelo-Parada F.: P646
 Campens L.: P1453
 Campisi M.P.: P755, P862
 Campos I.: P1435, P314
 Camuglia A.: P1310
 Can Bostan O.: P1492, P1498
 Canada M.: P327, P938
 Canadas Pruano D.: P723
 Canali G.: P1520, P1733
 Canbolat I.P.: 1650
 Candeias Faria D.: P1267, P1661
 Candiotti N.: P808
 Candiottti N.: P230
 Cannata F.: P226, P657, P851
 Cano Carrizal R.: P769
 Canora A.: 1149
 Cantinotti M.: 165, 429
 Cantisani D.: 1154, P1489
 Canu A.: P665
 Capelastegui Alber A.: P811
 Capelli C.: P1452, P971
 Capodaglio I.: P1441
 Capodanno D.: P329
 Capogrosso C.: 1133, 612, P1282, P1368, P279, P845
 Capone V.: P639
 Capotosto L.: P206, P208, P635
 Capoulade R.: 1037, P1287, P1725, P283
 Cappelli F.: P798
 Cappelli M.: 1133, P377
 Capranzano P.: P329
 Capsa R.A.: 124
 Caputo M.: P355
 Caracciolo M.: P1563, P297, P915
 Caracciolo M.M.: P1365, P1370, P641
 Carbognin G.: 1094, 501, P232
 Carbognin L.: P1329, P1347, P1412, P1450, P1456
 Carbone A.: 1133, P377, P919
 Cardenas-De La Garza J.A.: P1300
 Cardoso A.F.: P1369
 Cardoso G.: P327, P938
 Cardoso Torres S.: P227, P964
 Carerj S.: P1334, P1339, P274, P730, P862, P866
 Carerj S.C.: P755
 Caretta A.: P865
 Carigi S.: P230, P808
 Cariou E.: 539, P1552, P373, P646, P911
 Carlomagno G.: P882
 Carmina G.: P917
 Carnero Montoro L.: P1337, P1474, P895
 Carpeggiani C.: 1041, 1044, 1153, 46, P1356,

P1792, P924
 Carpen M.: P1790
 Carr J.: 1162
 Carrabba N.: P722
 Carrasco Avalos F.: P1337, P895
 Carrasco Moreno J.I.C.: P356
 Carreras Costa F.: P1758, P775, P888
 Carreras Mora J.: P775
 Carrero C.: P1291
 Carrie D.: 539, P1552, P1557, P373, P646, P911
 Carrillo Estrada M.C.E.: P1372, P1372
 Carrington M.: P1519
 Carrington M.: P1545
 Carr-White G.: P873
 Carugo S.: P1737, P865
 Caruso A.: P1789, P952
 Caruso V.: P819
 Carvalho Santos R.: P1367
 Carvalho J.: P1545
 Carvalho M.: 546, P707
 Carvalho T.I.A.G.O.: P1360
 Carvalho W.B.: P1418
 Carvelli A.: P862
 Casacang-Verzosa G.: P1693, P963
 Casadei F.: P1535, P1684
 Casanova Rodriguez C.: P769
 Casas E.: 1606
 Casas G.: P1542
 Casas Rojo E.: P1394, P1446, P1731, P656, P874, P885
 Casciano O.: P754
 Casco A.: P1790
 Casella M.: P1760
 Casella S.: P1668
 Caselli S.: P898, P919
 Casile C.: P730, P866
 Caso P.: P1565, P186, P808, P882
 Caso V.M.: P1565
 Cassina T.: 1651
 Castaldi B.: P638, P904
 Castania G.: P329
 Castellanos Alcalde M.: P836
 Castellanos M.: P1670
 Castelnuovo S.: P792
 Castiglioni A.: P1282
 Castillejos H.C.S.: P339
 Castillo De Juan J.: P836
 Castini D.: P865
 Castro F.: P1463
 Castro F. A.: P1724, P293
 Castro G.: P1526
 Castro Verdes M. B.: P237
 Catoya Villa S.: P1272
 Cattabiani M.A.: P960
 Cavagna E.: P808
 Cavalcante J.: P970
 Cavalcante J.L.: P1549
 Cavallari N.: P635
 Cavallaro M.: P1565
 Cavalli G.: P1806
 Cazalhou S.: P373, P646
 Cazzoli I.: 169, 172, P930

Ceballo Silva J.F.: 1652
 Cebe Ay H.: P620
 Cebe H.: P1241
 Cecchetto A.: 1094, 1612, 501, 91, P1520, P1730, P1733, P187, P232
 Cecconi A.: 1097, 1615, P1568, P700
 Cefalu C.: P1773
 Cefalu' C.: P1776
 Celeng C.: 1194
 Celeste F.: P1441, P1773
 Cella P.A.M.: 114
 Celutkienė J.: P1312, P1546
 Cemil Izgi C. I.: P622
 Cerchiello M.: 95, P332
 Cerejo R.: P886
 Cerit L.: 122
 Cerlinskaite K.: P1312
 Cermakova E.: P1359
 Cerne Cercek A.: P1678
 Cerrito L. F.: 1136, P1450, P1456, P196
 Cerrito L.F.: P1329, P1347, P1412
 Ceruti F.: 553
 Cervantes J.: P946
 Cesareo M.: 1083, P741
 Chae J.K.: P1343
 Chakraborty B.: 425, 551
 Chambers J.: P873
 Chang H.J.: 606, P877
 Chang S. A.: P910
 Chang S.A.: 1036, 1200, P1698
 Chang S.-A.: P376
 Chaparovsky E.: P1426
 Charalampopoulos G.: P1326
 Charbonnier M.: P1523
 Chard R.: P676
 Charisopoulou D.: 40
 Chatani K.: 1135
 Chauvet-Droit M.: P1523
 Che Hassan H.A.M.A.T.: P631
 Cheewatanakornkul S.: P633
 Chelliah R.C.: P1735
 Chen D.: 490
 Chen H.C.: P897
 Chen J.: 420
 Chen M.: P887
 Cheng S.: P1695
 Chenik S.: P1757, P727
 Cherneva R.C.H.: P1457, P758
 Cherneva Z.H.: P1457, P758
 Cherti M.: P250
 Cheung M.: P1229
 Chiampan A.: 1094, 1612, 501, 91, P1520, P1730, P1733, P187, P232
 Chiaroni P.M.: 556
 Chikamori T.: 411
 Chin C.W.L.: 1203
 Chin D.T.: P1735
 Chinali C.: P231
 Chinali M.: P896, P948
 Chiorino E.: P199
 Chiriach L.: P365
 Chitroceanu A.M.: 1026

Chitsaz M.R.: P833
 Chitu M.: P344
 Chivulescu M.: P797
 Cho D.H.: 1140, 549
 Cho E. J.: P910
 Cho G.Y.: 1023, 414, 605, P1464, P1708
 Cho G.-Y.C.: 554
 Cho I. J.: P877
 Cho I.J.: 606
 Cho J.G.: P1708
 Cho J.H.: P857
 Cho J.R.: P889
 Cho J.S.: P1693
 Cho J.Y.: P1525, P1708
 Cho S.J.: 1036
 Cho Y.R.: P1475
 Chobanov A.: P305
 Choi E.Y.C.: P1389
 Choi H.: P361
 Choi J.: P889
 Choi J. O.: P910
 Choi J.-H.: 561, 610, 611
 Choi J.H.C.H.O.I.: P961
 Choi J.I.: 549
 Choi J.W.: P268
 Choi J.Y.: P877
 Choi S.: P889
 Choi S.Y.: 606
 Choi Y.-J.C.: 554
 Cholevas N.: P1528
 Chong A.: P1310, P1778
 Chong Fah Shen V.: P373
 Chong J.: P1459
 Choudhary P.: P739
 Choudhury L.C.: 1162
 Chourabi C.: P727
 Chourabi C.H.A.D.I.A.: P1753, P1754
 Chowienzyk P.: 1139, P873
 Choy J.: P1488, P1490
 Choy M.: P1488, P1490
 Christodorescu R.: P794
 Christodoulou A.: P1270
 Christou A.: P1349, P205, P313, P921
 Christou G.: P1325
 Christou K.: P1325
 Chrysos G.: P787
 Chua T.: 478
 Chubuchny V.: P1532, P220
 Chun E.J.: 606
 Chung H.: P1389, P954
 Chung W.J.: P361
 Ciampi Q.: 1034, 1041, 1044, 1153, 41, 44, 46, P1309, P1356, P1792, P803, P924
 Cianchetti E.: P1793
 Cianci V.: P959
 Ciardetti M.: P1532
 Ciardi M.: P635
 Cicala G.C.: P1800
 Cicchitelli G.: P802
 Ciccio C.: 1094, 501, P232
 Ciccio' C.: 91, P187
 Cicek Yilmaz D.: P281

Cicoira M.: P1566
 Ciconte G.: P731
 Cieplucha A.: 168
 Cieslik-Guerra U.: P1380
 Cifrian Martinez J.M.: P264
 Ciftci C.A.V.L.A.N.: P1714
 Cigarran Sexto H.: P693
 Ciliberti P.: P231, P896
 Cimino S.: 1154, P1334, P1339, P1489, P1717, P274, P932
 Cimmino G.: P248
 Cimmino M.C.: P862
 Cincin A.: P1492, P1498
 Cinteza M.: P1284, P703
 Ciobanu A.: P1338
 Ciobanu A.O.: P1284, P823
 Ciobanu D.: P365
 Ciobanu E.: P691
 Ciomag R.: 124, P1675
 Cioppa C.: P1565
 Ciortan L.: P1338
 Cipriani A.: 538, P1718
 Cipriano A.: P1791
 Cirillo C.: 1133
 Cirillo S.: 497
 Cirit A.: P281
 Cismaru G.: P844
 Cisneros Carpio S.: P836
 Citro R.: 1020, 1034, P1479, P1728, P276, P320, P843, P862, P924
 Ciuperca D.: 1039, 1043, P1218, P801, P869, P966
 Civera S.: P1718
 Civieri G.: P904
 Claessen G.: 1150, 42
 Claeyls M.: 1150, 42
 Claus P.: 1150, 413, 42, P962
 Clavel M.A.: P1287
 Clemenza F.: P1572, P355, P917
 Clerc J.: P733
 Clerc O. F.: 608
 Cobo Belaustegui M.: 474
 Coceani M.: P1532
 Cochet H.: P1554, P650
 Cocozza S.: P754
 Codazzo G.: P926
 Codina M.: 1607, 94, P1670
 Codina Prat M.: P1425, P223, P725, P761, P836
 Cogliani F.: P1479
 Cohen A.: P1523
 Coisne A.: 1032, P914
 Colak A.: P816
 Cole C.: P1310
 Colella A.: P240
 Coli S.: 1082, 1086, P1660, P960
 Colizzi C.: P1309, P659
 Colli A.: P325, P944
 Collings S.: P209
 Colluoglu T.U.G.C.E.: P1440
 Colombino M.: P843
 Colombo A.: 612, P1368
 Colombo S.: P332

Colombo S.M.L.: 95
 Colonna P.: 1020, P1728, P924
 Coltelli M.: P928, P929
 Colunga Blanco S.: P310, P693
 Colunga-Pedraza I.J.: P1300
 Coman I. M.: P1416
 Coman I.M.: 496, P1223, P191, P626
 Commisso C.: P219
 Comsa H.: P844
 Comtois A.S.: P936
 Comunello A.: P1329, P1347, P1411, P1412, P1450, P1456, P214
 Conceicao I.: P1781
 Congo K.: P1361, P1545
 Constantin I.: P1291
 Constantin R.E.: P1431
 Constantinescu R.: P365
 Constantinescu T.: 496, P703
 Constantinides T.: P1270
 Contaldi C.: 1162
 Conte E.: 123, 547, 558, 559, P1441, P1540, P1556, P347
 Conte L.: P258, P883
 Conte M.: P1789, P952
 Conte M.R.: 497
 Cook S.A.: 1203
 Cooper J.: P1548
 Copciag R.: P1338, P823
 Coppin A.: P914
 Coppola A.: P925
 Coppola C.: P1405, P1409
 Coppola G.: 1149
 Corana G.: 429
 Corbascio M.: P1466
 Corciu A.: 1618
 Corciu A.I.: P198, P199, P200
 Cordeiro F.: P696
 Cordeiro L.F.A.: 1088, 469, P328
 Cordeiro S.C.: 502
 Cordero A.: P1503
 Corlan I.: P823
 Corneli M.: P358
 Corrada E.: P851
 Corradi F.: P960
 Corradini D.: 1649
 Corrado G.: 1034
 Correa C.M.: 1088, P328
 Correia E.: P809
 Correia J.: P1392, P225
 Corros Vicente C.: P693
 Cortez-Dias N.: P1781
 Cortigiani L.: 1041, P1792, P928, P929
 Costa A.: 501
 Costa C.: P251
 Costa Dias C.: P839
 Costa F.: P865
 Costa J.: 430, P1667
 Costa S.: P1424, P662
 Costache A.: 1093, P1796, P691
 Costache V.: P691
 Costache V.I.C.T.O.R.: 1093, P1796
 Costagliola T.: P843

Costantino M.F.: 41
 Costantino R.: P730, P866
 Costeira-Pereira A.: P1671
 Costeria-Pereira A.: P1667
 Costola G.: P899
 Cosyns B.: P194
 Cotrim C.: 1044, P685, P686, P687, P764
 Coussement P.: 1138
 Coutinho Cruz M.: 422, P1280
 Coviello K.: 1041
 Cox S.: P1310
 Cozza F.: 1082, 1086, P960
 Cozzi E.: P1725
 Craft M.: 170, P1694, P350
 Cramariuc D.: P1469
 Cramer M.J.M.: 1018, P1804
 Cramp P.: P1778
 Craveiro N.: P1483, P241, P251, P806, P809, P810, P886, P890
 Cravo V.S.: 1088, P328
 Crea F.: P1294, P1309, P659, P934, P950
 Crea T.: P795
 Crespo A.: P655
 Cresti A.: P1728
 Crisci M.: 167
 Crisci M. C.: P362
 Cristea G.: 124, P1675
 Cristica T.: P233
 Cristobal Varela C.: P1377
 Cron C.: 539
 Crudele F.: P935
 Crudo F.: P950
 Cruz Ferreira R.: 164, 1648, 166, 422, P1415, P1506, P1657, P1687, P311, P673, P749
 Cruz I.: 1100, P1353, P1361, P1367, P1562, P1673, P666, P764, P980
 Cruz-Ferreira R.: P1280
 Csecs I.: 1158, P1558, P367
 Csepke O.: P630
 Cubo M.P.: P229
 Cucic L.: P1761, P1808, P263, P308
 Cudnoch-Jedrzejewska A.: P1536
 Cueff C.: 1037, P1725, P283
 Cuellas Ramon C.: P348
 Cuenza R.: P1487
 Cuesta Cosgalla J.M.: 474, P852
 Cuesta Cosgaya J.M.: 1610, P1272, P264
 Cuevas O.: 113
 Cuman M.: P1448
 Cunha N.: P1783
 Curcio Ruigomez A.: P1377
 Curzi M.: P226, P657
 Curzon C.: P350
 Cusma-Piccione M.: P862, P866
 Cusma-Piccione M.C.: P730
 Cutri' A.: P231
 Cutri A.B.: P896, P948
 Cuypers J. A. A.: P349
 Cvetic V.: 1147
 Cvijic M.: 413, 494, 545, 551, P1712, P962
 Cwiek-Rebowska E.: P1245
 Cynthia Tan K. Y.: P1225

Czarzasta K.: P1536
 Czekajska-Chehab E.: 557, P1689, P346
 Czimbalmos C.: P367, P630
 Czimbalmos C.S.: 1158, P1558
 Cziraki A.: P1271

D

Da Silva C.: P1387, P1780
 Da Silva C.O.: 1080
 Daae A.: P861
 Dabrowski R.: P778
 Dadarlat A.: P1266
 Daffina M.G.: P730, P866
 Dagdeviren B.: P1439
 D'agostino A.: 410, P1704, P867, P868
 D'agostino I.: 1651
 Daha I.: P1263
 Dahmani R.: P727
 Daida H.: P1247, P1321, P689
 Dal Porto M.: P1329, P1347, P1412, P1450, P1456
 Dalen H.: P1410, P717
 D'alfonso M.G.: P1356
 Dalla Chiara E.: 1094
 Dalla K.: P291
 Dalla Valle C.: P1668
 D'alto M.: 1153
 Damascan S.: P794
 D'amato M.: P919
 D'amico G.: P1334, P1339, P1717, P274, P932
 D'amico M. A.: P1244
 Dammene Debbih N.: P304
 Damjanovic-Pazin B.: P1237, P203, P299
 Dan A.: P1263
 Dan G.A.: P1263
 Dandel M.: P294
 D'andrea A.: 1034, 1133, 1149, 46, P1333, P1356, P362, P377, P919
 Daneluzzi C.: P286
 Danford D.: P350
 D'angelo C.: P866
 Danicic M.: P1242, P234, P763
 Danilowicz Szymanowicz L.: P309
 Danilowicz-Szymanowicz L.: 1046, P1748, P372
 Danna P.L.: 95
 Dannnoura Y.: P1485
 Dannoura Y.: P1478, P282
 Danzmann L. C.: P1792
 Dar O.: P1493
 Darriba J.: P229
 D'ascenzi F.: 1201, P639, P935
 D'ascenzo F.: P1529, P782
 Daskalov I.: P305
 Daubeney P.: P744
 Davar J.: P971
 David C.: 1198, P1534, P1783, P724, P876
 Davidson Z.E.: P1229
 Davies K.: P1778
 Davies R.H.: P269, P671
 Davila-Jimenez J.A.: P1300
 Davini O.: P805
 De Alcantara M.L.: 1088, 469, P328

De Angelis D.: P948
 De Backer J.: P1453
 De Backer T.: 534
 De Benito Gonzalez T.: 1077
 De Beule N.: P849
 De Blasi G.: P866
 De Bliek E.: 38
 De Bonis M.: P1282
 De Bruin R.: P905
 De Buyzere M.: 534
 De Carlini C.: P180
 De Castro E Silva Pretto J.L.: 1041
 De Chiara B.: P1535, P1684
 De Dios E.: 1195
 De Filippo O.: P782
 De Greef Y.: P1664
 De Gregorio C.: P755
 De Groote K.: P1453
 De Groote P.: P914
 De Jaegere P.T.: 1609
 De Jesus I.: P1256, P835
 De Jong N.: 1040
 De Keersmaecker A.: P322
 De Knijf K.: P1341, P743
 De La Cruz Berlanga E.: P769
 De La Cuerda F.: P700
 De La Fuente Villena A.: P1226, P192
 De La Hera Galarza J.M.: P693
 De Lazzari M.: 537, P1718
 De Maeyer C.: P322
 De Martino F.: 123
 De Matteis G. M.: P219
 De Meester De Ravenstein C.: P870
 De Micco L.: P325
 De Nes M.: P924
 De Pasquale G.: P878
 De Paulis A.: 118
 De Potter T.: P1346, P651
 De Remigis F.: P335
 De Roberto A.M.: P1333, P371
 De Rosa F.: P1660
 De Rosa R.: P276
 De Rossi G.: P1480, P1501, P729
 De Ryck N.: P194
 De Santis J.: P329
 De Scordilli M.: P286
 De Tapia Majado B.: P264
 Debaco I.S.S.: 114
 Debl K.: 563
 Debonnaire P.: 1138, P1805
 Debska-Kozłowska A.: P820
 Deceuninck M.: 1138
 Decurtins P.: P1777
 Dedeilias P.: P1433
 Dedovic V.: P1307
 Deferm S.: 111
 Degiovanni A.: 1024, 553
 Degtiarova G.: 413, P962
 Dei Poli M.: P1404
 Dejgaard L.A.: 536, P1812, P799
 Dekleva M.: 1041, 1044, 46, P1356, P790
 Del Bene R.: P240

Del Castillo Arrojo S.: P1377
 Del Castillo Garcia S.: 1077, P348
 Del Gaizo F.: 46
 Del Giudice E.: P802
 Del Negro G.: P843
 Del Pasqua A.: P231, P896, P948
 Del Prado S.: P289
 Del Re F.: 471
 Dela F.: P1344
 Delahaye F.: P1314
 Delaney G.: P739
 Delaney J.: P350
 Delcea C.: P1263
 Delcroix M.: 42
 Deleanu D.: P1677
 Delforge M.: 545
 Delgado A.: P1418
 Delgado Ortega M.: P1337, P1474, P895
 Delgado Sanchez-Gracian C.: P348
 Delhaas T.: 1022, 421
 Deligiannis A.: P1325
 Deligiannis G.: 1644
 Deljanin Ilic M.: 1148
 Deljanin-Ilic M.: P705
 Della Porta M.: P1309
 Della Ratta G.: P731
 Dell'aversana S.: P1556
 Delle Donne G.: P853
 Delle Donne M. G.: P1273
 Delli Paoli L.: 1618, P198, P199, P200
 Dematte C.: P899
 Demerouti E.: P1462
 Demetriades P.: P824
 Demirevska L.: P305
 Demulier L.: P1453
 Denchev S.D.: P1457, P758
 Denniss A.R.: 1045, P1459
 Denny S. J.: 431, P975
 Dentamaro I.: 1157, 1197, 1202, P1550, P1728, P354
 Depooter J.: P1805
 Deri A.: P1273, P853
 Dermedgoglou A.: P209
 Deron Z.: P788
 Desandri D.R.: P1553, P278, P284
 Deshmukh T.: 1045
 Destefanis P.: P1298
 Destounis A.: P787
 Destro G.: 117, P624
 D'ettorre G.: P635
 Deux J.F.: 556
 Dghim M.Y.R.I.A.M.: P1753, P1757
 Dhannapuneni R.: P1278
 Dhavalagimath M.: 533, P617
 D'hooge J.: 1024, 425, 545, 551, P807
 Di Baldassarre A.: P1244, P1793
 Di Bella G.: P1572, P755
 Di Bello V.: P883
 Di Biasi M.: 95, P332
 Di Blasio A.: P1793
 Di Giannuario G.: P230, P808
 Di Giovine G.: P747

Di Maio M.: 1149
Di Maio M. D.M.: P362
Di Matteo G.: P1294
Di Micco L.: P944
Di Muro M.R.: P320
Di Nunzio D.: P730
Di Odoardo L.: 558
Di Salvo G.: 1027, 46, P1786, P321, P740, P744
Di Salvo M. E.: P329
Di Santo S.: P1793
Di Saverio M.C.: 1649, P1654, P1669, P660
Di Stasi C.: P659
Di Stefano R.: P883
Diab M.: P273
Diaconeasa A.: P295
Dianis S.: 535
Dias Ferreira Reis J. P.: 1648, P1415, P1657, P673
Dias P.: P227
Diaz Babio G.: P1291
Diaz Dorronsoro A.: P1226, P192
Diaz Lancha S.: 1090, P814
Diaz Navarro R.: P1561
Diaz Pelaez E.: P1662, P1665
Diaz Retamino E.: P723, P972
Dickens B.: P671
Didagelos M.: P957
Diego G.: 1615, P700
Diego-Nieto G.: P1568
Diehl L.: P1230, P1304, P1458, P796
Diehl L.M.C.: P1539
Diez Del Corral B.: P972
Dijos M.: P1314, P253
Dikic M.: P1307, P912
Diklic Z.: P1743
Dimitroglou I.: P1779
Dimitroglou Y.: P1362
Dimitrow P.P.: P1397
Dimopoulos K.: 163, 167, 169, 171, 172, P1707, P864, P930, P946
Dimulescu D.R.: P233
Dina C.: P283
Dincer .: P840
Dinet M.L.: P1554
Ding Z. P.: 478
Ding Z.P.: P669
Dingli P.: P1257
Dini F. L.: 410, P1704, P258, P867, P868
Dini F.L.: 1020
Diniz A.R.: P1369
Diniz M.F.: P1418
Disalvo R.D.: P1800
Djordjevic-Dikic A.: 1044, 1147, P1302, P1356, P682, P803, P912
Djou U.: P733
Djoughri M.: P1385, P1736, P674
Djuric Predrag D.P.: 1614
Dobrev D.: P1340
Dobric M.: P1307, P682, P735, P912
Dobrovie M.: 545
Doctor T.N.: 476
Doevendans P.A.: 1018

Doevendans P.A.F.M.: P1804
Doghmi N.: P250
Doh J.-H.: 611
Dohy Z.: 1158, P367
Dohy Z.S.: P1558
Doi H.: P706
Doi H.D.: P1524, P714
Doi N.: P1259, P1732
Doi S.: P1321
Doimo S.: P1548
Dokht Abdiyan R.A.S.O.U.L.: P1414
Dolci G.: P1329, P1347, P1411, P1412, P1450, P1456
Doltmurzieva N.: 1152
Doltra Magarolas A.: P1809
Domingo Valero D.D.V.: P356
Domingues C.: P1424, P1526, P1719, P323, P662
Domingues K.: P1483, P886, P890
Dominguez L.: 1615, P700
Dominguez-Arganda L.: P1568
Domsik P.: P1388, P1496, P1739, P1765, P738, P940, P942, P943
Donal E.: 408, 428, P1314, P1332, P204, P275, P859, P879
Donati T.G.: P1782
Donato R.: P755
Donazzan L.: 117
Donnelly J.: P1763
D'onofrio A.: P1565
Dorniak K.: 1046
Dorobantu D. M.: 496, 499, P1416, P191
Dorobantu M.: P1277, P1376, P1533, P191, P295, P307, P822
Dosen D.: P951
Dourado R.: P1663
Dowley M.: P923
Doyle J.: P1682
Draghici B.: P191
Drago F.: P231
Dragovic-Tomic M.: P682
Dreger H.: P1235, P634, P636, P642
Drieghe B.: 1138
Drivas K.: P313, P921
Drobni D.Z.: P1434
Droogmans S.: P194
Drop A.: 557, P346
Druker B.: 420
Duarte J. A.: P1429
Dubanaev A.: P255
Dubois-Rande J.L.: 556
Duchateau J.: P650
Duchateau N.: P1518, P1774
Duchenne J.: 413, 424, 545, P1706, P712, P804, P962
Dudek D.: P1397
D'udekem Y.: 476
Dudic J.: P1237, P1761, P203, P263, P299, P308
Dudic J.J.: P1808
Duggins A.: P1459
Dugo C.: 1094, 1612, 501, 91, P1520, P1730, P1733, P187, P232
Dujardin K.: 1138

Dulgheru R.: P1334, P1339, P1717, P274
Dulgheru R. E.: P932
Duma S.: P1459
Dumitrache S.: P1431
Dumitrascu M.: P365
Dumitrescu J.: P1431
Dumitrescu S. I.: P365
Dungu J.: P819
Dupont M.: 111, 45
Duque G.S.: 1088, 469, P328
Duraes Campos I.: P1667, P1671, P252, P678
Duran K.: P1809
Durand A.: P1488
Dursent N.: P1518
D'urso L.: P1419, P1769
Duva Pentiah A.: P914
Dux-Santoy L.: 1157, 1202, 432, 435, P1550
Duygu H.: 122
Duytschaever M.: P1805
Dworakowski R.: P1716
Dzhanketova V.: P973
Dzhanketova V.S.: P1491
Dzhioeva O.: P766
Dziewiecka E.: 550, P1306, P698
Dziewiecka E. M.: P254
Dziewierz A.: P1397
Dzudovic B.: P891

E
Ebato M.: P789
Ebner C.: P918
Ecarma M.: P1487
Echarte Morales J.C.: 1077
Ectors B.: 38
Eder V.: P918
Ederhy S.: P1523
Ederle F.: P1448
Edme J.L.: 1032
Edvardsen T.: 1019, 536, P1345, P1452, P1804, P1812, P643, P797, P799
Efe S.C.: P1531
Efkarpidis E.: P182
Efsthathiou M.: 169, 172
Eggert-Doctor D.: P331
Ehara N.: 1031
Ehlermann P.: P265
Ehret G.: 412
Eicher J.C.: P879
Eichner F.: P195
Eidet J.: 1134
Eiros Bachiller R.: P1226, P192
Eishi K.: 560, P1289
Eitel I.: 1155, 1196, 1199
El Aroussy W.: P1472
El Gebaly O.: P677
El Haddad M.: 1138, 534, P1805
El Mahdiui M.: P345
El Sharkawy E.: 93, P1238, P1686, P829
Elamin O.S.A.M.A.: P213
Elbanna M.Y.H.: 1645
Eleftherakis N.: P842
Eleid M.F.: P1371

Elenzy F.: P1285
Elfawal S.: 92
Elgebaly O.: 1098
Elkaffas S.: 1092
Elkafrawy F.: P247
Elkasabany A.: P670
Elkington A.: P1311, P280
Elkum N.: P1471
Ellekjaer H.: P1410
Ellensen V.: P717
Elliott C.: P1481
Elliott P.M.: P800
Elmagawry M.: P217
Elmahmoudy Nayel A.: P1797
Elmkies F.: P733
Elmoughazy A.: 93
Elnaggar W.: 1092
Elorriaga Madariaga A.: P725
Elosua R.: P903
Elsamad S.: P828
Elsayed A.: P215
Elsayed A.S.M.A.A.: P217
Elshabka A.: P1744
Elsharkawy E.: 477
El-Sharkawy E.: P670
Elshazly A.: P1797
Elwany M.: 92
Elzeneini M.: P1797
Elzomor H.: P1549
Emara A.A.: P1494
Emdin M.: P1532, P220
Emilio Miglierina E.M.: 89
Enache R.: 1039, 1043, P1223, P1517, P1691, P626, P801, P869, P966
Englezopoulos C.: P787
Engstrom G.: P1795
Ennezat P.V.: P1314
Epis O.M.: P1535
Erdei T.: 1024
Erdemir G.: P816
Erdogan E.: 1646
Ereminiene E.: P303
Erhart L.: P1782
Erickson C.: P350
Erickson C.T.: 170
Ericsson F.: P1374, P979
Eriksson M.: P1466
Eriksson M.J.: P711
Eriksson R.: P1399
Eris D.: P1451
Ermira Muco E.M.: 1081
Eroglu S.: P816
Erol C.: 1101, P840
Eroshenko O.: 1152
Erraboun N.: P250
Ertl G.: 417, P887
Erturk M.: 1617
Ervina Shirka E.S.H.: 1081
Eryuksel E.: P1492, P1498
Escalona Silva R.A.: P1720
Eshak N.: 93
Eskandari M.: P1716

Eskerud I.: P1246
Espinosa Pascual M.J.: 1652, P1377
Esposito C.: P231, P896, P948
Esposito G.: P1320, P1522, P285
Esposito L.: P1234, P1461, P371
Esposito M.: P1234
Esposito R.: 118, 423, P1234, P1320, P1333, P1461, P292, P371, P754
Esteban A.: 1085, 120, P1446
Esteban Peris A.: 119, P1281
Esteban Tome M. T.: P1454
Esteban-Peris A.: P1543
Estensen M.E.: P717
Etman W.: 1095
Eugene T.: 438
Eusebio Garcia-Izquierdo E.G.I.: P1221, P184
Evangelista A.: 1157, 1195, 1197, 1202, 432, 435, P1522, P1542, P1550, P1720, P1799, P285, P354, P647
Evangelista M.: 1618
Evans A.: P1459
Evdoridis C.: P1653, P1750
Evola V.: 423, P1320
Evsikova I.A.: P236, P759
Evtushenko A.: P1391
Evtushenko A.V.: P813
Ewe S. H.: 478
Ewe S.H.: P664, P669
Exposito Calamardo L.: 1090
Exposito Garcia V.: 1610, P852
Eyharts D.: P373, P646

F

F Texeira T.: 1041
Fabbiocchi F.: P715
Fabbri E.: P802
Faber L.: P1569, P333
Fabian A.: P1770, P1772
Fabiani D.: P335
Fabiani I.: 1020, 410, P1704, P1728, P258, P867, P868, P883
Fabricio C.G.: P1350
Fabris E.: P1264
Fackoury C.: P1713
Fadel B.: P1786, P321
Fady G.: 495, 88
Faeh-Gunz A.: P878
Faga V.: P1751, P1764, P306
Faganello G.: P1728
Faggian G.: 1136, P196
Faguer S.: P911
Fahimi A.: P1514
Falcao-Pires I.: 546, P1232, P707
Falces C.: P1467
Falk V.: 433, P294
Fallani N.: P722
Falletta C.: P1572
Faludi R.: P1271, P290
Fan Y.T.: P1357
Fang F.: P1212
Fang Q.: P1328
Faraji H.: P317
Faria A.P.: P1444
Faria B.: P1463, P1724, P293
Faria D.: 1079
Faria Da Mota T.: P1256, P835
Faria R.: P210, P806
Farid R.: P670
Farmakis D.F.: P1254
Farneti L.: P230, P808
Faro D.C.: P1419, P1769
Farruggio S.: P329
Farstad M.: P717
Fassini G.: P378
Fathey M.: P1494
Fawzy M.: P1472
Fazendas P.: P1361, P1367
Fazendas P. R.: P1353, P884
Fazzari F.: P226, P657
Fehri W.: P727
Fehri W.A.F.A.: P1753, P1754
Feignoux J.: P1803, P342
Feinberg M.: P732
Felekos J.: P1362
Feliciano J.: P311, P749
Felix A.S.: 1088, 469, P328
Fengler K.: P1486
Fenstad E.R.I.C.: P1379
Ferent I.: P343
Ferkh A.: P1459, P1468
Fernadez-Galera R.: P1542
Fernanda-Bonilla M.: P1659
Fernandes M.: P1724
Fernandes R.: P1256, P835
Fernandez Galera R.: P1764, P354
Fernandez Golfín C.: 1085, 1132, 120, P1281, P1394, P1446, P289, P718, P956
Fernandez J.L.: P655
Fernandez M.A.: 119, 120
Fernandez R.: 432, 435, P1550
Fernandez Rozas S.: P264
Fernandez Valls M.: P1272
Fernandez Vazquez F.: 1077
Fernandez X.: 1044
Fernandez-Galera R.: 1197
Fernandez-Golfín C.: 119, 1606, P1515, P1543, P1720, P1731, P1747, P1787, P656, P663, P874, P885, P916
Fernandez-Mendez M.A.: P1543
Fernandez-Vazquez F.: P348
Ferraiuolo G.: P219
Ferrante G.: P1737, P865
Ferrante L.: P1789
Ferrara F.: 1153
Ferrara N.: P1789, P952
Ferrari E.: P1518, P1774
Ferrazzi P.: P747
Ferrazzo G.: P730, P862
Ferreira A. M.: P1683
Ferreira C.: P1424, P662
Ferreira F.: P1506, P666
Ferreira G.: 116, P1236
Ferreira H.: 1079, P1267, P1427, P1429, P1661, P681

Ferreira I.: 1195
 Ferreira J.: 1079, P1267, P1424, P323, P662, P976
 Ferreira J.P.: P238
 Ferreira N.: 546, P210
 Ferreira R.: P728, P967
 Ferreira W.: 546, P707
 Ferreiro Quero C.: P1474
 Ferreira J.: P1661
 Ferrer Bleda V.: P814
 Ferrero A.: 113
 Ferrer-Sistach E.: P1720, P1799
 Ferro A.: P186, P882
 Ferrone M.: P1333
 Ferry Kareth M.: P1460
 Fetecau B.: P1677
 Fiarresga A.: P1415, P311, P728, P967
 Figliozzi S.: 538
 Fijalkowska J.: 1046, 115
 Fijalkowski M.: 115, P1748
 Filho L.A.B.M.: 469
 Filipe F.: P749
 Filippetti L.: P1672
 Filomena D.: 1154, P1489
 Fina P.: P219
 Fino C.: P355
 Fiocco A.: P325, P944
 Fiore C.: P1439
 Fiorentini Naccari C.: 1201
 Fiorio E.: P1329, P1347, P1411, P1412, P1450, P1456
 Firmansyah D.K.: P1476
 Firmida C.C.: 469
 Fischer M.: 563
 Fisher R.: P1682
 Fisicaro A.: 612, P1368, P279, P845
 Flick C.: P237, P946
 Flores Diaz D.F.: P1752
 Flores Vergara G.M.: 1077
 Floria M.: P1482, P697
 Florido Perena J.: P811
 Fluck D.: P880
 Fluttaz A.: P1314
 Focardi M.: 1201
 Fodi E.: P290
 Fogoudaki A.: P913
 Fojt A.: P1279, P826
 Fonseca Goncalves F. M.: P696
 Fontana M.: P798, P971
 Fontes-Carvalho R.: 546, P1232, P1705, P707
 Foo W.T.: P669
 Forestier E.: P1314
 Forleo G.B.: P906
 Formenti A.: 547, 559, P1540, P1556, P347
 Formichi B.: P1532
 Formisano R.: P1789, P952
 Formisano T.: 1034, 1133
 Fornitz G.G.: 47
 Foronda F.K.: P1418
 Forsha D.: P1763
 Forster T.: P1388, P1496, P1739, P1765, P738, P940, P942, P943

Forteza A.: 1202
 Forteza Gil A.: P1348, P900
 Forteza J.F.: P1299, P1497
 Fossa I.: P899
 Fossa S.D.: P1345
 Fosse E.: 1134
 Fournet M.: 408
 Fournier E.: P1554
 Fournier P.: 539, P373, P646, P911
 Fragakis N.: P804
 Fragata J.: 164, 166, P1657, P673
 Fragiadakis K.: P955
 Fraisse A.: 1027, P740, P744
 Frampton A.: P1778
 Franca G.M.: P1418
 France R.: P1763
 Franceschini A.: P896, P948
 Franchi E.: 165, 429
 Francisco A.: P884
 Francisco A.R.: 1198, P1781
 Francisco C.E.V.: 1088
 Francisco R.M.G.C.: 1088, P328
 Franco D.: P1333
 Franco E.: P1787
 Franco F.: P1424, P662
 Frandsen J.: P1344
 Fransson H.: P1795
 Frantz S.: 417, P887
 Fraser A. G.: 1024
 Frassi F.: P1791
 Freeman P.: P979
 Freitas A.: 1079, P1267, P1429, P1661, P681
 Freitas A.D.: P1444
 Freitas D.F.: 1616, P1253
 Freitas F.: P1424, P662
 Freitas P.: P1683, P327
 Freixa X.: P1467, P330
 Frey M.: P716
 Frey N.: P653
 Frias Garcia R.: 1089
 Friebe J.: P1502
 Friedberg M.K.: P752
 Friedman Z.: P732
 Friend E.J.: P1715, P1727
 Frigola J.M.: P197, P647
 Fritche Salazar J.F.: 1137, P1752
 Fritche-Salazar J.F.: P1323
 Froeling M.: 1194
 Frogoudaki A.: P953
 Frumkin D.: P1235, P784
 Frycz-Kurek A. M.: P234
 Fuchs P.: P265
 Fuentes E.: P1809
 Fuertig C.: P1383
 Fujii A.: P969
 Fujimoto H.: P1259, P1732
 Fujimoto S.: P812
 Fujimura J.: P1703
 Fujisawa M.: P1460
 Fujita B.: P1521
 Fukase T.: P1321, P689
 Fukuda S.: P1697, P1697

Fukui M.: P1549, P970
 Fung P.: P1790
 Furugen A.: P1524, P706, P714
 Furukawa Y.: 1031
 Furuya M.: P1510, P771, P937
 Fusini L.: 123, 547, 559, P1441, P1773, P1776, P318, P378, P715
 Fuster D.: 437

G
 Gabartaite D.: P1312
 Gabriel H.: P353
 Gabriella F.: P755
 Gabrielli F.: P934
 Gad A.: P670
 Gadula-Gacek E.: P709
 Gaetani E.: P1294, P659
 Gaibazzi N.: 1082, P1660, P808, P926, P960
 Galal A.: P1285
 Galan Gil D.: 1652, P1377
 Galan L.: P229
 Galarza-Delgado D.A.: P1300
 Galasso G.: P1479, P276, P320
 Galderisi M.: 1133, 118, 423, P1234, P1320, P1333, P1461, P292, P371, P754, P919
 Galeotti G. G.: 1020, 410, P1704, P867, P868
 Galian L.: 1157, 1197, 1202, 432, 435, P1542, P1550, P354
 Galian-Gay L.: P1720, P1799
 Galinier M.: 539, P1552, P1557, P373, P646, P911
 Galiuto L.: P1294, P934
 Gallego Delgado M.: P1662, P1665
 Gallego Page J.C.: 1090, P814
 Gallet R.: 556
 Galli E.: 408, 428, P1332, P275, P859, P879
 Galli E.L.E.N.A.: P204
 Gallina S.: P1244, P1793
 Gallinoro E.: P248
 Galloo X.: P849
 Galrinho A.: 1648, P1415, P1506, P311, P673, P728, P749, P967
 Galusko V.: P1293
 Galuszka O. M.: P1502, P881
 Galzerano D.: P1786, P321
 Gama F. F.: P1683
 Gama Ribeiro V.: 546, P707
 Gama V.: P1705, P210
 Gamaza Chulian S.: P723, P972
 Gamba A.: P180
 Gambarin F.I.: P1309
 Gambaro A.: P1682
 Gan G.: P1459
 Gan L.M.: P1355
 Ganaeem M.: P732
 Ganaim M.: P1729
 Gandara M.: 1202
 Gao S.: P277
 Gao S.A.: P1378
 Gapys A.: P1380
 Garatti A.: 1618, P200
 Garcia Gonzalez P.G.G.: P1802

Garcia A.: 1085, 1132, 120, 1606, P1446, P1515, P1747, P289, P718, P874, P916, P956
Garcia Botta T.: P1291
Garcia Del Blanco B.: 1195
Garcia Del Saz E.: P1460
Garcia Dorado D.: 1195
Garcia Garcia A.: P769
Garcia Ibarrondo N.: 1607, 94, P1425, P223, P725, P761, P836
Garcia Iglesias D.: P693
Garcia Lopez J.C.: 1090, P814
Garcia Martin A.: P1281, P1394, P1731, P656, P885
Garcia N.: P1670
Garcia R.: 430
Garcia Rubio J.C.: P310
Garcia Ruiz F.J.: 1652
Garcia Sanz R.: P1665
Garcia-Dorado D.: 1157, 1197, 1202, 432, 435, P1542, P1550, P354
Garcia-Guimaraes M.: 1615
Garcia-Izquierdo Jaen E.: P1348, P900
Garcia-Martin A.: 119, P663
Garcia-Moreno L.: P700
Gardezi S. K. M.: P1393
Gargani L.: 165, P1535, P1791
Garibaldi S.: 1082
Garlasche A.: P1773
Garriboli L.: 91
Garrote Coloma C.: 1077
Garwood S.: P1697, P1697
Gasbarrini A.: P1294, P659
Gasior M.: P1242, P234, P267, P709, P763
Gasior Z.: P1402, P360, P372
Gaspar A.: P1360
Gaspar Hernandez J.: 1137
Gaspardone A.G.: P334, P337, P855
Gaspar-Hernandez J.: P1323
Gasparovic K.: P951
Gastaldello N.: P1760
Gatti M.: P1540, P1556
Gatti P.: P782
Gatzoulis M.: 163, 167, 169, 171, P864, P946
Gaudio C.: P208, P635
Gavara J.: 1195
Gavira Gomez J.J.: P1226, P192
Gavrilovic N.: P1237, P203, P299
Gawor M.: 1091
Gay F.: P795
Ge Q.R.: P1212
Gedela S.: P819
Geelen P.: P1346
Gelbrich G.: P1785, P195
Geleijnse M.L.: 1040
Gelpi G.: P332
Gencer B.: P1782
Generati G.: 540
Genkel V.: P364
Genovese D.: 544, P1517, P1771
Gent Caco G.C.: 1081
Gentile G.: P1572, P180
Gentilini R.G.: P334, P337, P855

Georgakopoulos C.: P945
Georgievskia Ismail L.J.: P1426
Geraldies L.: P1504
Gerasimenko S. M.: 1647
Gerasimenko V. I.: 1647
Gerasimenko V.I.: P1738
Gerber B.: 1025
Gerber B.L.: 535
Gerdtz E.: P1246, P1469
Gerede Uludag D.M.: 1101
Geri P.: P286
Germano' G.: P206
Germanova O. A.: P1742, P298
Gerstenfeld E.P.: P1328
Gertz R.: P1544
Geth S.: P849
Ghardalou H.O.U.D.A.: P1224, P628
Ghareep A. N.: 1092, 1643, 87, P1443, P228
Gheorghiu A.M.: P703
Gheorghiu L.: P1338
Gherasim D.: 1039
Gherbesi E.: P1230, P1304, P1458, P1539, P796
Gherli T.: P960
Gheysens O.: 413, P962
Ghinassi B.: P1244
Ghinghina C.: 1160, 496, 499
Ghulam Ali S.: P1441, P1773, P1776, P715
Giammarresi A.: P1365, P1370, P1563, P1564, P1566, P1567, P1679, P297, P641, P915
Gianakopoulou P.: P182
Giannakopoulos N.: P1445
Giannakoulis G.: 169
Giannaris V.: P1495, P1741
Giannattasio C.: P1684
Giannitsis E.: P265
Giannoni A.: P1532
Giannopoulos D.: P1445
Gianstefani S.: P1810
Giedre Stanaitiene G.S.: P1292
Giga V.: 1147, P1302, P682, P803
Gigantino A.: P1479, P320
Gilbert-Dussardier B.: 430
Gilland A.: P1795
Gillmore J.: P798
Gimaev R.H.: P783
Ginghina C.: 1039, 1043, P1218, P1223, P1416, P1691, P626, P680, P801, P825, P869, P922, P966
Giordano M.: P206
Giordano R.: 165
Giraldez Valpuesta A.: P723
Girerd N.: 408
Giubertoni A.: 553
Giubertoni E.: 1035
Giudice P.: P320
Giuditta M.: P1458, P796
Giuseppe Calveri G.C.: 89
Giustetto C.: P805
Giverts I.Y.U.: P1470
Gjertsen E.: 536
Gkosios T.: P800
Glaudemans A.W.J.M.: 613

Glaveckaite S.: 1161, P1546
Glowczynska R.: P1536
Goanta F.: P1220
Gobbi C.: P1230, P1304, P1458, P1539, P796
Gobolos L.: 1084
Godava J.: P1571
Goh C.W.: P268
Gohar A.: P670
Gokalp G.: P893
Gokhan Kahveci G. K.: P622
Gokhroo R. K.: P1512, P907
Goktekin O.: P1442
Golba K.: P372
Golia E.: P362, P925
Goliash G.: P353, P920
Golino P.: 1133, 1149, P248, P377, P919
Golukhova E.Z.: P1491, P973
Gomaa A.: 93, P235, P627
Gomes A.C.: 1100, P1361, P1367, P1562, P1673, P764, P980
Gomes C.: P666, P806, P809
Gomes R.: P806, P809
Gomes S.: P1444
Gomes S.G.: 1616, P1253
Gomes T.J.N.: 114
Gomez Llorente M.: P1226, P192
Gomez Sanchez V.: P811
Gomiscek A.: P1685
Goncalves A.: 535, P1506, P1519
Goncalves A.V.: 1648
Goncalves F.: 472, P1726, P976
Goncalves I.: P1781
Goncalves L.: P1301, P1424, P1519, P1526, P1719, P662, P976
Goncalves M.O.S.: 1088
Goncalves S.: P1499, P1781
Gonzalez A.: 1085, 1132, 120, P1446, P1720, P289, P656, P663, P718, P956
Gonzalez Enriquez S.: 1610, P852
Gonzalez Estriegana S.: P723
Gonzalez Garcia I.A.: P1377
Gonzalez Gomez A.: P1394, P1731, P885
Gonzalez Lizarbe S.: 1610, 474, P1272, P852
Gonzalez Mirelis J.: P1348, P900
Gonzalez Pastor V.: P1250
Gonzalez R.: P1299, P1497, P229
Gonzalez Ruiz M.: P1662, P1665
Gonzalez Sanchez M.T.: P310
Gonzalez Sanchez T.: P693
Gonzalez T.: P1799
Gonzalez Vilchez F.: 474, P1272, P852
Gonzalez Vilchez F.J.: 1610, P264
Gonzalez-Alujas M.T.: 1197, 432, 435, P1542, P354
Gonzalez-Alujas T.: 1157
Gonzalez-Bartol E.: 1097, P1568, P700
Gonzalez-Gomez A.: 119, 1606, P1515, P1543, P1747, P874, P916
Goodfield N. E. R.: P243
Gopee S.: P325, P944
Goppelt F.: P287
Gorbatenko E.A.: P1317

Gorczewski W.: P698
 Gordeev M.: P1274
 Gorrisen W.: P1697, P1697
 Gorriz Magana J.: P1250
 Gosciniak P.: P372
 Gospodinova M.G.: P1457, P758
 Gosselin M.: P936
 Goth N.: P1763
 Gottfridsson P.: P296
 Goudev A.: P637
 Gouliarios N.: P182
 Gourgouli I.: P945
 Graba J.: P1694
 Grabauskiene V.: P902
 Grabowski M.: P1319, P1364, P1723
 Graca Santos L.: P225
 Granato C.: 1157, 1202, P354
 Granato C.H.: P1799
 Grande Astorkiza A.: P836
 Grapsa J.: 1084, 1645, P1349, P1504, P1659, P205
 Grassi I.: P802
 Grasso A.: P971
 Grasso C.: P329
 Graupner Abad C.: P1377
 Gravanis K.: P913
 Graven T.: P1410
 Graziadei G.: P1458, P796
 Graziani F.: P934, P950
 Grecu M.: P1482
 Gregorio C.: P286
 Greiner S.: P265, P287
 Greutmann M.: 542
 Gribaa R.Y.M.: P1224, P628
 Grieco F.V.: P1789, P952
 Griffiths T.: P975
 Grigoriadis S.: P1373, P777, P939, P941
 Grigoriou C.: P1653, P1750
 Grigoryev V.V.: P726
 Griguer A.: P837
 Grillo M.: P747
 Grilo Diogo P.J.: 86
 Grimaldi M.G.: P1789, P952
 Grimsmo J.: P1812
 Gripari P.: 123, P1441, P1773, P1776, P715
 Griseli L.: 114
 Gritti M.: P798, P971
 Grkovic D.: P1500, P772
 Gromadzinski L.: P1681, P1688
 Gronlund J.: P1248
 Gross M.: P881
 Grosseto D.: P230, P808
 Grotemeyer K.C.: P1755
 Grunewald E.: 539
 Gruner C.: 542
 Grupo De Trabajo De Endocarditis H.C.B.: 437
 Grutter G.: P948
 Grycewicz T.: P820
 Grzybowski J.: 1091
 Gu H.: P873
 Guala A.: 1157, 1202, 432, 435, P1529, P1550, P354

Gualis Cardona J.: 1077
 Guardado J.: P225, P685
 Guardia Martinez P.: P1465
 Guarguagli S.: 167
 Guaricci A.I.: 547, 559, P1540, P1556
 Guarino T.: P1508
 Guarneri F.P.: P1508
 Guarneri M.C.: P862
 Guasch E.: P903
 Guazzi M.: 1618, 540, P1365, P1370, P1404, P1563, P1564, P1567, P1679, P297, P641, P915
 Gudaite A.: P933
 Guedes J.P.: P1256, P835
 Gueli I.A.: 471, P665
 Guenka G.A.: 469, P328
 Guerin A.: P879
 Guerma L.: P1725
 Guerreiro R.: P806, P809, P810
 Guerreiro R.A.: P1545
 Guglielmo M.: 547, 558, 559, P1540, P1556, P1776, P347
 Guida V.: 537, 538, P1517, P1718
 Guiducci S.: P1535
 Guillen-Lozoya A.H.: P1300
 Guimaraes H.: P352
 Guimaraes J. T.: P352
 Guimaraes J.P.: P696
 Guimaraes T.: 1198, P1781
 Guimbretiere G.: 1037, P1725, P283
 Gulbahar O.: P893
 Gummert J.: P1521, P1569, P333
 Gurel E.: P1498
 Gurghean A.L.: 124, P1675
 Gurol T.: P1439
 Gurzun M.: P365
 Gurzun M. M.: P922
 Gusetu G.: P844
 Guseva O.: P1386, P1538, P683
 Guseva O.A.: P236, P759
 Guta A.: P1807
 Guta A.C.: 537, 538, 544, P1517, P1718
 Gutberlet M.: 1155, 1196, P1216
 Guteta S.: P717
 Gutierrez Garcia L.: 1197
 Gutierrez L.: 1157, 1202, 432, 435, P1542, P1550, P354
 Gutierrez Landaluce C.: P1377
 Guttman O.: P188
 Guven S.: P1531
 Guyader G.: 430
 Guyomarch B.: 438
 Guzzetti E.: P1287
 Gwon A.: P774

H

Ha T.Y.: P1516
 Haaf P.: 608
 Haager P.K.: P1782
 Haaverstad R.: P717
 Habazettl H.: P331
 Haberka M.: P1402, P360
 Hadjis A.: P1328

Haertel Miglioranza M.: 1041
 Haettasch R.: P636
 Hagag W.: P1285
 Hagendorff A.: P1216, P1383, P276
 Haggui A.: P727
 Hahn C.: P1698
 Hahn J.Y.: 1156
 Hajdu M.: P1271
 Hajjar L.A.: P807
 Halab S.: P250
 Hallen J.: P1452
 Halmai L.: P1493
 Halushka A.: P791
 Halvorsen P.S.: 1134
 Hamada A.: P854
 Hamade J.: P1387
 Hamala P.: P207, P721
 Hamdi I.M.E.N.: P1753, P1754
 Hamdy A.M.: P909
 Hamed W.: 1042, P1494, P1511, P1744, P300
 Hami K.: 535
 Hamilton D. J.: P243
 Hammad B.: P216
 Hammel C.: 417
 Hammersborg S.: P717
 Hammoudi N.: P1523
 Hamodraka E.: P1422
 Hamrayev R.R.: P702, P815
 Han D.: 606
 Han H.: 561
 Han H.W.: 606
 Han K.-R.: P821
 Hanafy D.A.: P1476
 Haney M.: P296
 Hantulie I.: P365
 Haotian G.U.: 1139
 Haouala H.: P727
 Haouala H.A.B.I.B.: P1753, P1754
 Hara H.: P1421
 Harada T.: 1135, P1352
 Harbi F.: P1385, P1736
 Hart L.: P1400
 Haruna H.: P1749
 Has M.: P1813
 Hasan K.: 1084
 Hascoet S.: P1518
 Hasenfus G.: 1155, 1196, 1199, P1544
 Hashimoto G.: P1421
 Hassan A.: P1472
 Hassan Abdelnabi M.: 1095, 1098, 93, P1686, P215, P216, P245, P246, P247, P828, P829
 Hassan M.: P1472
 Hassanein M.: P1686
 Hasselberg N.E.: P799
 Hattori S.: P1259, P1732
 Hatzi Georgiou K.: P787
 Haugaa K.H.: 1019, 536, P1345, P1452, P1804, P1812, P643, P797, P799
 Hauge S.: P717
 Hauptmann K.E.: P653
 Hauptvogel D.: P642
 Hawkins P.N.: P798

Hay Kragholm K.: P1374
 Hayama H.: P1421
 Hayano M.: P760
 Hayashi T.: P748
 Hayashida A.: P1214, P621
 Hazenberg B.P.C.: 613
 Hazirolan T.: P816
 Hecimovic A.: P951
 Hefny G.: P1260
 Hegbom F.: 536
 Heiberg E.: P1795
 Heidari H.: P920
 Heidbuchel H.: 1150, 38
 Heidrich F.: P1366, P319
 Heijden J.F.: 1018
 Hein M.: 609
 Helder Pereira D.R.: P1215
 Helge J.W.: P1344
 Hellermann J.: P1782
 Helle-Valle T.M.: 536
 Hellman Y.: P273, P871, P872
 Helmy S.: 1643, 87, P1443, P228, P262, P661
 Helmy S.H.: P1420
 Henein M.Y.: 40, P1399, P375, P710
 Hennessey B.: P841
 Hennig A.: P373
 Henquin R.: P1721
 Henriques C.: P1427, P681
 Henriques-Coelho T.: P352
 Heo R. H.E.O.: P753, P961
 Hernandez A.: 428, P1332, P859
 Hernandez Antolin R.: P1515, P1747, P916
 Hernandez Jimenez S.: 120, P1543
 Hernandez Muniz S.: 1097, P1568
 Hernandez P.: P779
 Hernandez R.: 1132, P289, P718, P956
 Hernandez S.: P1322, P1787, P270, P700, P720
 Hernandez-Madrid A.: P1787
 Hernandez-Meneses M.: 437
 Herrmann S.: 417, P887
 Heupel C.: P642
 Heuschmann P.U.: P1785, P195
 Heuten H.: 38, P974
 Hewing B.: P634
 Hickey E.J.: P1713
 Hidalgo Lesmes F.: P1474
 Hildrum H.: P1410
 Hilker M.: 563
 Hill C.: P1509
 Hinds M.: P719
 Hinojar Baydes R.: 1085, P1281, P1446, P1543
 Hinojar R.: 1132, 120, 1606, P1515, P1731, P1747, P289, P656, P718, P874, P885, P916, P956
 Hinojar-Baydes R.: 119
 Hirata Y.: 555, P1375, P1574
 Hiremath P.: P1695
 Hiroe K.: 1078
 Hirose K.: P1247, P1321, P689
 Hirota M.: P894
 Hisdal J.: 552
 Hjertaas J.: P1469
 Hjort-Hansen A.: P1410

Hlawaty M.: 550, P1306, P648, P649, P698
 Ho E.: 113
 Hoare D.: P1363, P1400
 Hodas R.: P340, P341, P344
 Hohl M.H.: P858
 Holcman K.: 550, P1306, P224, P254, P372, P648, P649, P698
 Holm K. I.: P1410
 Holmark Andersen N.: P1374
 Holzamer A.: 563
 Homentcovschi C.: 124, P1675
 Homich A.: 125
 Honchar O.: P708
 Honde K.: P760
 Honek T.: P1571
 Hong B.K.H.: P1389
 Hong G.R.: P1727
 Hong K.S.: P266
 Hong S.J.: 1140
 Hong S.N.H.: P897
 Hopp E.: 536, P1559, P1812
 Horinouchi H.: 1033, P848
 Horita R.: 1031
 Horstkotte D.: P1569, P333
 Horta E.: P1360, P327, P938
 Horton A.: 476
 Horumba M.: 124, P1675
 Hoschitzky A.: 1027
 Hoshi T.: P272
 Hoshino M.: 1611, P1473, P1788, P672
 Hoshino N.: 1611, P1473, P1788, P672
 Hosny M.: P670
 Hothi S. S.: P1666, P1735
 Houard L.: 1025
 Houshmand G.: P260
 Hovstad T.: P717
 Hoxha S.: P1448
 Hozumi T.: P1315, P1762
 Hreniuc C.: P794
 Hristova K.: P1340, P1464, P1759, P770
 Hruskova L.: P1527
 Hrytsyna Y.: 433, P294
 Hu K.: 417, P1755, P887
 Hu L.: P963
 Huang Y.J.: 1099
 Hubert A.: 408, 428, P1332, P275, P859
 Huczek Z.: P965
 Hude P.: P1571
 Huebscher A.: P634, P636
 Hughes A.: P644, P645
 Hui W.: P1713
 Hullin R.: 412
 Huntjens P. R.: 1022
 Huntjens P.R.: 421
 Huqi A.: 41
 Huttin O.: P1672
 Hwang I.C.: 605
 Hwang S.-T.: 561

I
 Iacoboni C.: 1154, P1489
 Iacomino M.: P231
 Iacovoni A.: P1572, P355
 Iaffaioli R.V.: P1409
 Iancovici S.: P307
 Iannaccone A.: P795
 Iannaccone M.: P782
 Ianos R.L.: P1220
 Iascone M.: P1284
 Ibarra Quevedo D.I.Q.: P1372, P1372, P339, P694
 Ibrahim O.: P1420
 Ibrahim S.: P235, P627
 Ichibori Y.: P1722
 Ide S.: P1421
 Ieda M.: P272, P908
 Iesu S.: P1479, P843
 Ifuku M.: P1703, P1749, P261
 Iglesias Colino E.: P1226, P192
 Iglesias Del Valle D.: P769
 Igual Munoz B.I.M.: P1802, P356
 Ihm S.H.: P266
 Iijima R.: P1421
 Iino T.: P1398, P1784, P359
 Ikari Y.: 1033, P848
 Ikeda F.: P1749
 Ikeda M.: P894
 Ikonomidis I.: P1342, P1395, P1528, P913, P953
 Ilagan L.: 163, P237, P930, P946
 Ilardi F.: P1334, P1339, P1717, P274, P932
 Ilhao Moreira R.: 422, P1506, P311
 Ilic A.: P1500, P772
 Ilic B.: 1148
 Ilic D.J.: P772
 Ilic N.: P790
 Ilic S.: 1148
 Illiceto S.: 537, 538, P1217, P1517, P1718, P1771, P1806, P1807, P1810
 Ilie R.: P1675
 Iliescu A.C.: P1482
 Iliodromitis E.: P1342, P1395, P1528, P913, P953
 Iliodromitis K.: P1346
 Ilov N. N.: 1647
 Imamura T.: P1697, P1697
 Imazio M.: P782, P805
 Imazuru T.: P185
 Imbriaco M.: P292
 Imouloudene N.: P304
 Imran T.: P1251, P242
 Inatomi Y.: P1530
 Inciardi R.M.: P1484
 Indrajaya M.: P1460
 Ines Cruz I.C.: P625
 Ingletto C.I.: P751
 Ingvarsson A.: P1710
 Ino Y.: P1315, P1762
 Inoue T.: 436
 Ioakeimidis N.: P945
 Ioannou C.: P302
 Ionac A.: P1220

Ionescu A.: P1293, P1481, P269, P671
 Ionin V.A.: 419
 Iorio S.F.: P231
 Iplinski B. S.: P1792
 Ippolito S.: 95, P332
 Iriart X.: P1518, P1554
 Isaac D.L.: P1790
 Isaka A.: P1510, P771, P937
 Isbister J.: 490
 Ise T.: P1375
 Ishida A.: P1460
 Ishihara S.: P1297, P1318, P244, P812
 Ishii K.: P760
 Ishizu T.: P272, P908
 Isiklar I.: P1222
 Islas F.: P1555
 Iso T.: P1703, P1749, P261
 Iso Y.: P789
 Isotani A.: P1460
 Italiano G.: P1776, P378
 Itatani K.: P1703, P261
 Ito J.: P1510, P771, P937
 Iturbe Fernandez D.: P264
 Iung B.: P1314
 Iversen A.: P901
 Iwai A.: P1259, P1732
 Iwama H.: P1259, P1732
 Iwata H.: P689
 Izci H.: 424
 Izquierdo B.: 1652
 Izquierdo Coronel B.: P1250
 Izumo M.: 1135, P1352, P1464
 Izzicupo P.: P1244, P1793

J

Jaafar P.: P1725
 Jabaren M.: P732
 Jablkowski M.: P788
 Jacobs S.: P331
 Jacobson I.: P1311, P280
 Jain A.: P1363
 Jain A.S.H.O.K.: P1512, P326, P907
 Jain P.: P837
 Jakopovic M.: P951
 Jakovljevic D.J.: P978
 Jakuska P.: P933
 Jalal Z.: P1554
 Jalles-Tavares N.: P1280
 Jamulitrat S.: P633
 Janc K.: P1406
 Jankovic M.: P951
 Janssens S.: 42, 45
 Jardim S.: P1687
 Jarkovsky J.: P1571
 Jauregui B.: P1809
 Jaussaud R.: 430
 Jaworski T.: P892
 Jeetley P.: P971
 Jelenc M.: P179
 Jenkins D D.: 495
 Jensen J.S.: P1290, P901
 Jensen J.S.J.: 1021

Jensen T.J.: P1324
 Jeon H.D.: P1715, P1727
 Jeon H.K.: P1401, P1690
 Jeong H.: 606, P877
 Jeong M.H.: P1708
 Jermendy A.: P1407
 Jermendy A.L.: P1434
 Jeruc J.: 494
 Jimenez J.A.: 1607
 Jimenez J.J.: 1132, P289, P718, P956
 Jimenez Mendez C.: 1615
 Jimenez Nacher J.J.: 1085, 120, P1394, P1446, P1543, P1731, P656, P663, P885
 Jimenez-Borreguero L.J.: 1097, 1615, P1568, P700
 Jimenez-Mendez C.: 1097, P1568, P700
 Jimenez-Nacher J.J.: 119, 1606, P1515, P1747, P874, P916
 Joao I.: 1100, P1353, P1361, P1367, P1673, P764
 Joergensen T.S.: 47
 Johansson G.: P296
 Johar S.: P847
 John-Matthwes B.: P204
 Johnson T.: P1763
 Jonauskiene I.: P933
 Jondeau G.: P1798
 Jones K. A.: P243
 Jones R.: P819
 Jonker D.L.: 613
 Jordan Rios A.: 1137, P1752
 Jordan-Rios A.: P1323
 Jorge Baena Herrera J.B.H.: P1221
 Jorge E.: P976
 Jorgensen P.G.: P901
 Jose Madureira A.: P222, P831
 Josen M.: 1027, P740, P744
 Joseph G.: P1248
 Jovanova S.: P1296, P1426
 Jovanovic I.: P735, P803
 Jovanovic V.: P1302
 Jovic Zoran J.Z.: 1614
 Jozsa C.: P1680
 Juan Francisco Oteo Dominguez J.F.O.D.: P1221
 Juan Manuel Escudier Villa J.M.E.V.: P1221
 Juciara S.M.: P328
 Juhasz V.: 1158, P1558, P367
 Jukema J.W.: P345
 Julia Maciel M.: P222, P831
 Julija Jurgaityte J.J.: P1292
 Jung H.O.: 606, P266
 Jung I. H.: P1746
 Jung L.Y.: P1343
 Jung M. H.: P266
 Junqueira N.: P666
 Junquera Vega L.: P693
 Junsirimongkol B.: P633
 Jurado Basildo C.: P348
 Jurado Roman A.: 1089
 Jurcut R.: 1039, 1043, P1284, P1677, P680, P801
 Jurcut R.O.: 1160, P797
 Jurgaitiene R.: P1312

Juricic S.: P1307, P735, P803, P912
 Jurko A.: P1219, P1219
 Jurko T.: P1219
 Justina Jureviciute J.J.: P1292
 Juthier F.: 1032
 Jv Monmeneu Menadas J.V.M.M.: P1802

K

Kabaj M.: 409, P259
 Kaczor U.: P1406
 Kaczynska A.: P1279
 Kagiyaama N.: P1214, P621
 Kaiser R.: P1755
 Kajdic N.: P1678
 Kaji S.: 1031
 Kajikawa Y.: P894
 Kaku N.: P1289
 Kalapos A.: P1388, P1496, P1739, P1765, P738, P940, P942, P943
 Kalashnykova O.S.: 125
 Kalashyan H.: P1488
 Kalesi A.: P787
 Kalil Filho R.: P807
 Kalimanovska-Ostic D.: 1147
 Kalinina E.: P1386, P1538
 Kalinowski P.: P368
 Kalmykova O.V.: 1647
 Kalogirou S.: P1445
 Kalra B.A.L.B.I.R.: P326
 Kamal A.M.: P1511
 Kamijima R.: 1135, P1352
 Kaminska H.: P640
 Kaminski J.: P1406
 Kamoen V.: 534
 Kanar B.: P1492, P1498
 Kandil A.: P1285
 Kandil A. A.: P221
 Kandoussi T.: P250
 Kane C.B.: P338
 Kane G.A.R.V.A.N.: P1379
 Kane G.C.: P1371, P338
 Kanemaru E.: P1530
 Kanev A.: P1391
 Kanev A.F.: P813
 Kaneva A.: P1340
 Kang D.H.: P1516
 Kang J.W.: P1516
 Kang M.-K.: P889
 Kang N.: P1570
 Kannan B.R.J.: P1417
 Kapalla J.: P1699
 Kapetanakis S.: P1373, P777, P939, P941
 Kapitsinis I.K.: P1254
 Kaplon Cieslicka A.: P684
 Kapniari I.: P1395, P913
 Kapravelou E.: P1278
 Karabag T.: P1531
 Karabinowska A.: P1306, P254
 Karabulut D.: P1241
 Karabulut U.: P620
 Karady J.: P1407, P1434
 Karadzov-Orlic N.: P1237, P203, P299

- Karakanas A.K.: P1254
 Karakosta M.: P787
 Karakozak D.: P620
 Karamigou Z.: P1445
 Karanasios E.S.: P842
 Kardos A.: P875
 Kargar F.: P668
 Karimi A.S.: P1514
 Karpov R.: P1391
 Karpov R.S.: P813
 Karuzas A.: P933
 Karvandi M.: P1700, P1701
 Karvounis C.H.: P957
 Kasem M.: P853
 Kashfi F.: P260
 Kashiwagi M.: P1315, P1762
 Kasim M.: P1553, P278, P284
 Kasinos N.: P787
 Kasner M.: P1502, P881
 Kasouridis I.: 491
 Kasprzak J.: P778
 Kasprzak J.D.: 1153, 39, 44, P1231, P1239, P1243, P1245, P1380, P1406, P372, P742, P762, P788
 Kasprzak J.D.K.: P207, P721
 Kasprzak J.I.: P1406
 Kassotakis S.: P302, P955
 Kastellanos S.: P1362
 Kataoka A.: P185
 Katbeh A.: P1341, P1346, P651, P743
 Kathol M.: P1763
 Katkat F.: P1241, P620
 Kato S.: P1530
 Katsanos S.: P953
 Katsimbri P.: P1342
 Katsivas A.: P1349, P205, P313, P921
 Katsouli E.: P302, P955
 Katus H.A.: P265, P287
 Kaufmann B.A.: P1782
 Kaufmann D.: 1046
 Kaul S.: P1493
 Kavoliuniene A.: P1312
 Kavouras C.: 163, 169, 171, 172, P930
 Kavvouras C.: 167, P946
 Kawada Y.: 1611, P1473, P1788, P672
 Kawai H.: 436
 Kawakami R.: P1297, P1318, P244, P812
 Kawamoto T.: P1214, P621
 Kawamura M.: P969
 Kawashima H.: P185
 Kaya E.: P1321, P689
 Kaya E.S.R.A.: P1714
 Kazik A.: P267
 Kaznica-Wiatr M.: P224
 Kazukauskienė I.: P902
 Kazum S.: 541
 Keber T.: 494
 Keenan N.: P837
 Kehat I.: P273, P871, P872
 Kelle S.: P1544
 Kelly M.: P923
 Kelly R.: P765
 Kemal H.: 122
 Kemaloglu Oz T.: P1439
 Kemeny L.: P1496, P943
 Kempfert J.: P331
 Kempney A.: P1707
 Kempny A.: 163
 Kenjaev M. L.: P1354
 Kenjaev S. R.: P1354
 Kennedy A.: P1393
 Ker J.: P1513
 Keramida K.: P1326, P1331, P1741, P767, P786, P837
 Kerins D.M.: P719
 Kerkar P.: 533
 Keshi A.: P1318, P244
 Ketfi C.: P1745
 Khachatryan L.: P1306, P254
 Khaje Ali Z.: P668
 Khalifa A.: P670
 Khalifa E.: P1420
 Khalifa E. A.: 1092, 1643, 87, P1443, P228, P661
 Khalil A.: P1656
 Khan S.: 491
 Khani M.: P1514
 Khanji M.: P1363, P188
 Kharche S. R.: P1814
 Khezerlou N.: P317
 Khilchuk A.: P683
 Kholeif A.E.: P1238
 Khoo J.P.: P1735
 Kierepka M.: P1406
 Kikuchi S.: 416
 Kim D.I.: P218
 Kim D.K.: P218
 Kim E. K.: P1698, P857
 Kim E.K.: 1036, 1200, P376
 Kim E.-K.: 610
 Kim H. Y.: P1541, P753, P961
 Kim H.D.: 549
 Kim H.K.: 605
 Kim H.M.: P1288, P701
 Kim H.Y.: P1525
 Kim H.-Y.: 561, 610, 611
 Kim J.: P1337, P895
 Kim J.B.K.: P954
 Kim J.Y.: P1262, P857
 Kim J.Y.K.: P1389
 Kim K.: 1031
 Kim K.H.: P1525, P1708, P218
 Kim K.K.H.: P1541, P753, P961
 Kim K.S.K.: P954
 Kim M.H.: P1475
 Kim M.N.: 1140, 549
 Kim M.S.: 1036
 Kim S.: P218
 Kim S.-E.: P821
 Kim S.H.: P1401, P1690
 Kim S.J.K.: P954
 Kim S.M.: 1200, P376
 Kim S.-M.: 561, 610, 611
 Kim W.H.: P1343
 Kim W.K.: 563, P954
 Kim W.S.K.: P954
 Kim Y.D.: P1475
 Kim Y.H.: 549
 Kim Y.J.: 605, P1516
 Kim Y.S.: P1343
 Kimura T.: P908
 Kimura Y.: P1289, P1460
 Kindawi A.: 1643
 Kinoshita M.: 1031
 Kinova E.: P637
 Kirkels F.P.: P1804
 Kirsch M.: P818
 Kis E.: P1271
 Kispal E.: 1141
 Kiss O.: 1158, P1770, P1772, P1775, P367
 Kisslo J.A.: P756
 Kitabata H.: P1315, P1762
 Kitada S.: 416
 Kitaeva E.: P1274
 Kitai H.: P789
 Kitai T.: 1031
 Kiyakbaev G.: P1305
 Kizana E.: P1459
 Kjellstad Larsen C.: P1559
 Kjellstrom B.: P1387, P1780
 Kjonaas D.K.: P1324
 Klaboe L.G.: P1812
 Klaboe L. G.: 1019
 Klassen S.: P1790
 Kleczynski P.: P1397
 Klein C.: 1032
 Kleinau J. O.: P1410
 Klein-Awerjanow K.: 115
 Klimis H.: P1468, P676
 Klokocovnik T.: P179
 Kmiec L.: 563
 Knebel F.: P1235, P634, P636, P642, P784
 Knecht S.: P1805
 Knierim J.: P294
 Knosalla C.: 433, P294
 Kobalava Z.: P1381, P1537, P958
 Kobalava Z.H.: P1305
 Kobayashi M.: P1703, P261
 Kobori A.: 1031
 Koca S.: P1451
 Kocabas U.: P1222, P181, P618
 Kochanowski J.: 43, P1279, P1319, P1364, P1723, P1816, P684, P826, P965
 Kochman J.: P965
 Kociemba A.: 168
 Kogias J.: 1644
 Kojima S.: 560, P1289
 Kokhan E.: P1305
 Kokowicz P.: 90
 Kolesnyk M. Y.: P1756
 Koleva V.: P637
 Kolodzinska A.: P1536
 Kolossvary M.: 434, 607, P1407, P1434
 Kolton-Wroz M.: P254
 Komatsu H.: P1478, P1485, P282
 Komini V.: 425
 Komocsi A.: P1271
 Komocsin Z.: P1772

Konopka M.: P256, P257
Konstantinou J.: P302, P955
Kontaraki J.: P955
Kontopodis N.: P302
Koo B.K.: 607
Koo B.-K.: 611
Kook H.D.: 1140
Koopsen T.J.: 421
Kopytsya N.: P708
Korcova R.: P286
Koritsanszky K.B.: 1141
Kormanyos A.: P1388, P1496, P1739, P1765, P738, P940, P942, P943
Korodi S.Z.: P1815, P344
Korosec S.: P1685
Korver K.: P1310
Koschalka A.: 1155, 1196, 1199
Koshino K.: 1078
Kosior D.A.: P1319, P1723, P1816
Kosmala W.: 409, 548, P1464, P259
Kosmalka K.: P1734
Kosowski W.: 409, P259
Kostakou P.: P1495, P1741, P786
Kostelli G.: P1342, P1395, P1528, P913, P953
Kostkiewicz M.: 550, P1306, P224, P648, P649, P698
Kostner K.: P1778
Kostopoulos V.: P1331, P1495, P1741, P786
Kotecha T.: P798
Kotlar I.: P1426
Koto D.: P1352
Kou S.: P1352
Koudounis P.: P1349, P205, P313, P921
Kouidi E.: P1325
Koulaouzidis G.: 40
Kouris N.: P1326, P1331, P1495, P1741, P767, P786
Kourtinos A.: P1433
Koussa M.: 1032
Koutlianos N.: P1325
Koutsiri K.: P1709
Kouya T.: P1478, P1485, P282
Kovac A.: 1608
Kovacevic-Preradovic T.: P898
Kovacs A.: 1141, P1351, P1770, P1772, P1775, P630
Kovacs I.: P1815
Kovacs Z.: P1739, P738, P940, P942
Kovalyova O.: P708
Kovarova L.: P1527
Kovats T.: P1775
Kowalik I.: P778
Kowalik R.: P1279, P826
Kowalick J.T.: 1155, 1196, 1199, P1544
Kowatsch I.: P1369
Koyama T.: 1031
Koyuncu I.: P1436
Kozlov P.: P1274, P1432
Kozuka Y.: P1477
Kozulin V.: P1274
Kozuma K.: P185
Kragholm K.H.: P979

Krajewski A.: P1242, P234, P267
Krajewski A. R.: P763
Kramer L.: 168
Kraske A.: P778
Krausz G.: P374
Krecki R.: 39, P1406
Krejci J.: P1571
Krejci P.: P1359
Kremzer A.A.: P734
Krestin G.P.: P968
Krestjancin M.V.: P783
Krikunov P.: P1303
Kristo D.: P957
Krivickiene A.: P1312
Krljanac G.: P1761, P1808, P263, P308
Krodi S.: P340
Krogh M.: 415
Krol J.: P257
Krol W.: P256, P257
Kromydas A.: P945
Krook A.: P711
Krstic I.: 1148, P705
Kruck S.: P642
Krylov A.: P977
Krylova N.: P1573
Kubo T.: 607, P1315, P1762
Kuch M.: P256, P257
Kucukoglu M.S.: P351
Kugacka A.: P372
Kujacic V.: P781
Kuklina M.D.: P1470
Kukucka M.: P331
Kulkarni H.: P963
Kumar S.: P1505
Kupczynska K.: P1231, P1239
Kupo P.: P290
Kuratani T.: P1722
Kurdziel M.: P1242, P267, P763
Kurek A.: P709
Kuriata J.: 492
Kurita M.: P1749
Kuriyama N.: P629
Kuroi A.: P1315, P1762
Kurosawa K.: P1464
Kurpesa M.: P1380
Kusmierczyk M.: 492
Kusunose K.: 555, P1375, P1574
Kutty S.: 1155, 1196, 1199, 170, P1544, P1694, P350
Kuwahara D.: P629
Kuwata S.: 113
Kuzava L.: P1763
Kuznetsov V.A.: P1317
Kwok F.: 1045
Kwon H.M.K.: P1389
Kyuno E.: P789

L

La Carrubba S.: P1728
La Franca E.: P917
La Gerche A.: 1150, 42

La Mura L.: 423, P1461, P292, P754
La Vecchia G.: P1489
Laabidi O.U.E.I.S.: P1224, P628
Labarre Q.: 430
Labaste F.: 539
Labate V.: P1365, P1370, P1404, P1563, P1564, P1679, P297, P641, P915
Labombarda F.: P792
Lacerda C.: P1435
Lachmann H.: P798
Lacoste M.O.: P328
Laczowska U.: P1681, P1688
Ladeiras-Lopes R.: P1705, P210
Lafitte S.: P253, P650, P879
Laforgia P. L.: P198, P199
Laforgia P.L.: P200
Lages J.: P1435
Lagren A.F.E.F.: P1224, P628
Lairaz O.: 539, P1552, P1557, P373, P646, P911
Lakatos B.: P1775
Lakatos B. K.: 1141, P1772
Lakatos B.K.: P1351, P1770, P630
Laleggia A.: 169, 172
Lalleggia A.: 171
Lalonde F.: P936
Lam L.T.: P1428
Lam W.: P209
Lambert B.: 490
Lamberti F.L.: P334, P337, P855
Lamendola P.: P950
Lancellotti P.: 1032, P1339, P1717, P274, P932
Landmesser U.: P1502, P881
Lanfranchi A.: 95, P332, P906
Lang R.M.: 1038, P318, P324
Lang S.: P1523
Lange T.: 1155
Langeois M.: P1798
Langet H.: 535
Lanjewar C.: 533
Lansac E.: P1798
Lanza D.: P1329, P1347
Lanza G.: P950
Lanza G.A.: P1294, P659, P934
Lanzoni L.: 1094, 1612, 501, 91, P1520, P1730, P1733, P187, P232
Lapinskas T.: P1544
Laranjeira A.: P1657, P673
Laranjeiro A.: P241
Larbi N.: P1767
Lario C.: 497
Larose E.: P1287
Larsen C. K.: 552
Larsen C.K.: 424, P1706, P712
Larsen T.H.: P1246
Larti F.: P658, P668
Lascelles K.: P864
Lashein M.K.: P1261
Lasica R.: P978
Lassen M. H.: 1021, P897
Latib A.: 612, P1368
Latifi Y.: 420
Latreche S.: P1385, P202

Latreche Sekoum S.: P1736, P674

Lattanzi F.: 1041, P1356

Lau K.: 417

Laucevicius A.: P1546

Laufs U.: P1216, P1316, P1383, P276

Laurent F.: P1554

Lauria C.: P1309

Lavall D.: P1216, P1316

Lavanco V.: P226, P657

Lavery R.: P719

Lavie-Badie Y.: 539, P1552, P373, P646

Lavorgna A.: P335

Law A.: P664

Law L.: P296

Laymouna R.: P670

Lazar G.: P1765

Lazar L.: P1388

Lazariashvili O.: P880

Le Breton H.: 408

Le Marec H.: 1037

Le Rolle V.: 428, P1332, P859

Le Scouarnec S.: P283

Le T.T.: 1203

Le Tourneau T.: 1037, 430, P1725, P283, P879

Le V.K.: P1213, P675

Le Ven F.: P1287

Leal C.: P1280

Leal G.: P1418

Leal M.: P1483, P241, P890

Leal T.: P1499

Leatu C.: P691

Lebedeva S.: P683

Lebl J.: P1449

Leclercq C.: 408, 428, P1332, P204, P275, P859

Lecumberri Cortes I.: P836

Ledakowicz-Polak A.: P374

Lee A. S. Y.: P664

Lee A.P.: P1357

Lee B.K.L.: P1389

Lee D.C.: 1162

Lee H.-J.: 610

Lee H.S.: 605

Lee J.H.: 606

Lee J.-H.: P821

Lee J.M.: 607

Lee J.M.L.: P954

Lee J.W.: P1262

Lee J.Y.: P1343

Lee K.S.: P1516

Lee L.: 500

Lee L.L.: 490

Lee M.M.Y.: P765

Lee N.: P889

Lee S.: P1343, P1516

Lee S. C.: P910

Lee S. H.: P1560

Lee S. Y.: P1560

Lee S.A.: P1516

Lee S.C.: 1036, 1200, P1698, P376

Lee S.C. L.E.E.: P1541, P753, P961

Lee S.E.: P877

Lee S.P.: 605

Lee S.R.: P1343

Lee S.Y.: 1200

Lee W.N.: P1692

Lee Y.B.: P1401

Legarra Oroquieta P.: P264

Leiballi E.: P1448

Leibowitz D.S.: P732

Leiner T.: 1194

Leite L.: P976

Leite S.: P1705, P1724

Leite-Moreira A.: 546, P1232, P1705, P352, P707

Leitman M.: P732

Lekakis J.: P1342, P1395, P1528, P913, P953

Lekhukul A.: P338

Lekhukul A.N.N.O.P.: P1379

Lekova R.: P1340

Lembo M.: P1320, P754

Leme M.P.L.: P328

Lemieux J.: P1464

Lengyel C.: P1739, P738, P940, P942

Leo L.: 1651

Leone D.: P1529, P741

Leone R.: P1479, P843, P843

Leonelli V.: P1448

Leong J.Y.: 490

Leosco D.: P1789, P952

Lerena P.: 474, P852

Lerena Saenz P.: 1610, P1272, P264

Lesiak M.: P1335

Lesniak-Sobelga A.: P1306, P648, P649

Lesniak-Sobelga A. M.: P224

Lesniak-Sobelga A.G.A.T.A.: 550, P698

Lessick J.: P273, P871, P872

Leta Petracca R.: P1758, P775, P888

Letocart V.: P1725

Lettow I.: P1655

Leurent G.: P275

Levasseur T.: 430

Lewandowski M.: P1403

Li C.: P1758, P775, P888

Li H.: P1692

Li L.: 170, P1694

Li Piani L.: 558

Li W.: 1613, 163, 169, 171, 172, P1707, P237, P864, P930, P946

Li W.-H.: P316

Li W.X.: P1570

Li Y.L.: P897

Lianza A.C.: P1418

Liao R.: P1695

Licata A.: P1508

Liccardo B.: P248, P362

Licciardi S.: P1769

Licordari R.: P862

Lie O.H.: 1019, 536, P1812

Lie Ø.H.: P1804, P797, P799

Liel-Cohen N.: P732

Liga R.: 471

Lim A.: P923

Lim D.S.: 1140

Lim H.-S.: 611

Lim K.H.: 1156, P376

Lim P.: 556

Lim V.Z.K.: 1203

Lima R.: P839

Lima-Silva G.: 1198

Limeres J.: P1542

Limongelli G.: P1356

Limperi S.: P1445

Lin B.: P1697, P1697

Lin C.H.: P1695

Linares Hernandez R.: P310

Linde C.: P1466

Lindner J.: 112, 420

Lindqvist P.: P1399, P296, P375

Linke A.: P1366, P319

Lipiec P.: 44, P1231, P1239, P1243, P1245, P1380, P1406, P742, P762, P778, P788

Lipiec P.L.: P207, P721

Lips A.: P1453

Lira D.S.: P1480, P1501, P729

Lisac J.: P1790

Lisignoli V.: P896

Liu D.: 417, P1755, P887

Liu L.: P1570

Liu Y.: P1570

Liu Y.W.: 1099

Liu Y.-W.: P316

Ljubotina A.: P772

Llano Cardenal M.: P1272

Lloyd G.: P1363, P1400, P1430, P653

Llull L.: P903

Lo Giudice F.: P286

Lo Iudice F.: P1333, P371

Lo J.: P340

Lo Q.: P739

Lobascio I.: P1668

Lobasso A.: 118

Lobetti-Bodoni L.: P805

Lobiati E.: P180

Locnen S.A.: P1503

Locorotondo G.: P1294, P659, P934, P950

Loizos S.: P188

Lombardero M.: P1721, P363

Lombardi F.: P1230, P1304, P1458, P1539, P796

Lombardi J.: 1651

Lombardi M.: P731

Loncaric F.: P369, P737

Longobardi A.: P1479, P843

Longobardo L.: P730, P862, P866

Lonnebakken M.T.: P1246

Lopes J.G.: P1301

Lopes L.: P800

Lopes L.R.: P1562, P764, P980

Lopes R.: P222

Lopez Aguilera J.: P1337, P895

Lopez Benito M.: P348

Lopez G.E.: 1088

Lopez Granados A.: P1337, P895

Lopez Iglesias F.: P693

Lopez Izaguirre J.: P836

Lopez J.: 1606, 420, P1281

Lopez Lluva M. T.: 1089
 Lopez Pais J.: 1652, P1377
 Lopez Serna M.: P1662, P1665
 Lopez-Lereu M.P.: 1195
 Loquias M.: P1503
 Lorens A.E.: P788
 Lorente A.: 1606, P1720, P663, P874
 Lorente Ros A.: 1085, 120, P1281, P1446, P1731, P656, P885
 Lorenzo N.: P229
 Losi V.: P1419, P1769
 Losito M.: P1365, P1370, P1563, P1679, P297, P641, P915
 Lota A.S.: P1696
 Lotz J.: 1155, 1196, 1199, P1544
 Loulakakis M.: P302
 Loureiro M.J.: P666
 Lourenco A.: P1463, P1724, P293
 Lourenco M.: P1724, P293
 Lourenco M. R.: P1463
 Loutfi M.: P1238
 Lovric D.: P951
 Lovstakken L.: P861
 Lowenstein J.: P1751, P306, P704
 Lowenstein J.A.: P1760
 Lozano Granero C.: P1543
 Lozano Martinez-Luengas I.: P310
 Lozano Ruiz-Poveda F.: 1089
 Lozano Torres J.: 1197
 Luaces M.: P1555
 Lubinski A.: P820
 Lucarini A.: P959
 Luchian L.: P1338
 Luchian M.L.: 1026
 Luciani G.B.: P1448
 Luciano F.: P371, P754
 Lucovnik M.: P1712
 Ludanyiova Z.: P329
 Luis Alonso Pulpon L.A.P.: P1221, P184
 Luisi D. A.: P1704
 Lukina O.: P1381, P1537, P958
 Lulaj D.: P1442
 Lumens J.: 1022, 421
 Lumia G.L.: P334, P337, P855
 Lund L.H.: P1387, P1780
 Lundberg A.: 1080, P1780, P817
 Lundqvist M.: P375
 Lundstrom P.: P711
 Lunet N.: P1232
 Lunghetti L.S.: P337
 Lunghetti S.: P639, P935
 Lunghetti S.L.: P334
 Luo X.X.: P1212
 Luque Moreno A.: P1337, P1474
 Luque T.: P1555
 Lurz P.: P1486
 Lustosa R.P.: P328
 Lutz M.: P653
 Lyon A.: 421

M

Maalouf J.: P355
 Mabou P.: 408, 428, P1332, P859
 Mabritto B.: 497
 Macaione F.P.: P1508
 Macarie I.R.: P1220
 Macarie R.: P1338
 Maccarthy P.: P1716
 Macchi C.: P792
 Macedo F.: 116, 86, P1236, P1240, P227, P238, P831, P846, P964
 Maceira Gonzalez M.G.A.: P1802
 Macek J.L.J.: P951
 Machado C.: P1480, P1501, P1663, P729
 Machino T.: P272
 Machura B.: P1406
 Maciag A.: P1403
 Maciejewski L.: P1402
 Maciel B.C.: P1350
 Maciel M.J.: 116, 86, P1236, P1240, P227, P238, P846, P964
 Maciol-Skurk K.: P234, P763
 Macron L.: P1803, P342
 Madeira F.: P1429
 Madeira S.: P1683
 Maeda K.: P1722
 Maemura K.: P1289
 Maestrini V.: 1154, P1489
 Maffei I.: 1083, P741, P795
 Maffei C.: P1484, P1566
 Maffessanti F.: P324
 Magalhaes D.: P846
 Magalhaes M.P.: P686, P687
 Magda S.L.: P703
 Maggiolini S.: P180
 Magini A.: 123
 Magro P.: P1683
 Mahfoudhi H.O.E.I.D.A.: P1753
 Mahfoufhi H.: P727
 Mahmoud H.A.N.I.: P217
 Mahmoud M.: P670
 Maia Araujo P.: P964
 Maia R.: P839
 Maia S.: P964
 Mainardi A.: P230
 Maisano F.: 113
 Major D.: P1772
 Majos E.: P778
 Makavos G.: P1395, P767, P913
 Makino K.: P1421
 Makino T.: P1478, P1485, P282
 Malago R.: P1668
 Malanchini G.: P1230, P1304, P1458, P1539, P796
 Malaxianaki E.: P1750
 Malcolmson J.: P1430
 Malecka B.: P648, P649
 Malek L.: P640
 Malhotra A.: P1454
 Malik J.: P1527
 Mallouhi M.: P1310
 Malon Gimenez D.: P1377
 Maltagliati A.C.: P378
 Maly J.: P653
 Malyszek-Tumidajewicz J.: P267
 Mamaeva O.: P683
 Mamaeva O.P.: P236, P759
 Mambulao R.: P1503
 Mamdouh S.: P235, P627
 Mammadli A.: P840
 Mammadov M.: P840
 Manca T.: 1086, P960
 Mancina J.: P1697, P1697
 Mancini E.: 547, 559, P378
 Mancini E.M.: 558
 Mancini M.E.: P1540, P1556, P347
 Mancio J.: 546, P1232, P707
 Mancone M.: P1489
 Mandes L.: 1039, 1043, P801
 Mandoli G.: 1136, P196
 Mandoli G.E.: P639, P935
 Maneikiene V.: P902
 Manez Mendiluce R.: P1725
 Manfredonia L.: P1294, P659, P934, P950
 Manganaro R.: P1334, P1339, P1717, P274, P730, P862, P866, P932
 Mangiafico S.: P329
 Mangieri E.: P208
 Mangual J.: P906
 Manicardi M.: 1035, P1295, P926
 Maniwa N.: P1315, P1762
 Manning P.: P242
 Mano T.: P1506
 Mano T.B.: 1648, P1415, P1657, P673
 Manolakou P.: P1349, P205, P313, P921
 Manolis A.J.: P1422, P1658, P667
 Manouras A.: 1080, P1387, P1780, P817
 Mantegazza M.: P1776
 Mantegazza V.: 123, P1773, P378
 Mantovani V.: 1618, P199
 Manupelli V.: 1020
 Manuppelli V.: P1728
 Manzanal A.: 1607, P1670
 Manzanal Rey A.: 94, P1425, P223, P725, P761
 Manzanal Rey M.: P836
 Mapelli M.: 123, P1441, P1776
 Maragkoudakis S.: P955
 Maragkoudakis S.: P302
 Marcheix B.: 539
 Marchel M.: 43, P1364, P684, P965
 Marchese P.: 165, 429
 Marchetta S.: P1334, P1339, P1717, P274, P932
 Marchi A.: 1044
 Marchionni N.: P722
 Marcin Fijalkowski M.-F.: P1734
 Marco A.: 1132, P289, P718, P956
 Marco Del Castillo A.: 1085, 120, P1281, P1394, P1446, P1515, P1543, P1731, P1747, P656, P874, P885, P916
 Marczak M.: 1091
 Marechaux S.: P870, P879
 Maret E.: P1466
 Margarida Lebreiro A.: P222
 Margariti P.: P1433

Margonato A.: 612, P1368, P279, P845
 Maric Kocijancic J.: P891
 Maries L.: P1220
 Marinho V.: P1424, P1526, P1719, P323, P662
 Marini C.: P279
 Marinkovic D.: P705
 Marin-Neto J.A.: P1350
 Marino P.: 1024, 553
 Marinov R.: P1340, P1759, P770
 Maristany J.: P1299, P1497
 Marketou M.: P302, P955
 Markl M.: 1162
 Markovic F.: P1302, P682
 Markovic Z.: 1147
 Marone G.: 118
 Maroz-Vadalazhskaya N.: P1390, P768
 Marques A.: 1100, P1361, P1367, P1562, P1673, P666, P764, P810, P980
 Marques A.R.: P678
 Marques J.: P1435, P1667, P1671, P252, P314, P323, P976
 Marques L.: P1252, P690
 Marques N.: P806, P809, P810
 Marques R.L.: 1088
 Marques-Alves P.: P1719
 Marra M.P.: 537, 538
 Marshall A.: P1400
 Marta Cobo Marcos M.C.M.: P184
 Marta L.: P1483, P241
 Martens P.: 111, 45
 Marti Fabregas J.: P888
 Martin Dorado E.: P1474
 Martin Escudero J.C.: P713
 Martin- Garcia A.C.: P1665
 Martin Lopez C.E.: 1652, P1348, P900
 Martin S.M.: P936
 Martinez C.M.H.: P339
 Martinez De Bourio R.: P1670, P223, P761
 Martinez De Bourio Uriarte R.: 94, P725
 Martinez Dosantos V.: P769
 Martinez Hernandez C.M.H.: P1372, P1372
 Martinez Hernandez M.H.C.: P694
 Martinez Janez N.: P1281
 Martinez Rios M.A.: 1137
 Martinez-Moreno A.: P1300
 Martinez-Naharro A.: P798
 Martinez-Rios M.A.: P1323
 Martin-Garcia A.: P1662, P1665
 Martin-Garcia A.C.: P1662
 Martini C.: P1551, P1800
 Martiniello A. R.: P1565
 Martin-Penato Molina A.: P769
 Martins D.: P1663
 Martins J.: P1671
 Martins R.: P1424, P1719, P323, P976
 Martins R.P.: P859
 Martinsson A.: P1795
 Martis S.: P733
 Marton E.: 562
 Martone A.: P1309
 Martone F.: P919
 Maruyama M.: P1247, P1321

Marwick T.H.: 548, P1464, P259
 Marzo F.: P808
 Mas Llado C.: P1299, P1497
 Mashina T.V.: P1491, P973
 Masi P.: P1798
 Masiello P.: P1479, P843
 Maske M.: P1423
 Maskon O.T.E.H.: P631
 Massad E.: 473
 Massetti M.: P1309, P659
 Massironi L.: P1737, P865
 Masson Juarez G.: P1291
 Mas-Stachurska A.: P905
 Mast T.P.: 1018
 Mastrogiovanni G.: P320
 Mastrogiovanni G.M.: P843
 Masuda K.: 415
 Mata Caballero R.: P1377
 Matajira Chia T.M.: P1662, P1665
 Mateescu A.: P1481
 Mateescu A.D.: P869, P966
 Mateos M.: P229
 Mateus C.: P839
 Mateus P.S.: P1726, P696
 Mathelie-Guinlet M.: P253
 Mathur S.: P1276
 Matia R.: P1787
 Matijevic Roncevic S.: P1743
 Matla M.: P1402, P360
 Matos A.S.: P1671
 Matos D.: P1683, P938
 Matos J.S.: 1088, 469
 Matos V.: P976
 Matre K.: P1469
 Matsubayashi K.: P1460
 Matsui K.: P1703, P261
 Matsumaru I.: 560
 Matsumoto S.: 1033
 Matsuo Y.: P1315, P1762
 Matsushita K.: P1510, P771, P937
 Matucci-Cerinic M.: P1535
 Matulic S.: P1743
 Matyas G.: 542
 Maurea C.: P1405
 Maurea F.: P1409
 Maurea N.: P1405, P1409
 Maurer D.: P878
 Mauricio A.: P1499
 Maurovich-Horvat P.: 434, 607, P1407, P1434
 Maury P.: P1557
 Mavroudi M.: P804
 Mazurkiewicz L.: 1091
 Mazza A.: P1309, P659
 Mazzali G.: 1136, P196
 Mazzanti M.C.: P883
 Mazzetti S.: P747
 Mcadam B.: P841
 Mcalindon E.: P1666
 Mccrary A.W.: P756
 Mcghie J.: P349
 Mcinerney N.: P923
 McIntyre C. W.: P1814

Mckeon S.: P363
 Meazza R.: P1539
 Mebazza A.: P1312
 Mecarocci V.: P731
 Mecenero A.: P1668
 Mechri M.: P1767
 Meder B.: P265
 Medilek K.: P1359
 Medino P.: 165, 429
 Medrano R.: P1487
 Meersman P.: P974
 Mefriyanni M.: P1313
 Mehenni O.: P1385
 Mehrer M.: P1316
 Meier L.: 542
 Meimoun P.: P733
 Mekonnen D.: P717
 Melberg K.: P1559
 Mele D.: P1704
 Melillo E.: P186, P882
 Melillo F.: 612
 Melillo F.M.: P845
 Melisurgo G.: P279
 Melita V.: P950
 Melnic T.: 1093, P1796
 Melnikova M.A.: P783
 Melotti E.: 558
 Melzer L.: P898
 Memis H.: 1026
 Mencarelli E.: P950
 Mendes M.: P1683, P327, P666, P938
 Mendes M.I.G.U.E.L.: P1360
 Mendes P.: P323
 Mendez I.: P1799
 Mendieta Badimon L.G.: P903
 Mendonca Cafe H.: P1256, P835
 Mendonca F.V.: P1444
 Mendonca T.: P1506
 Mendoza Cuartero P.: 94, P223, P761
 Mendoza Cuartero P.M.: P1425, P725
 Mendoza P.: P1670
 Menendez Suarez P.: 1077
 Menezes M.N.: 1198
 Menting M.: P349
 Meray I.: P1381, P1537, P958
 Merchan Gomez S.: P1662, P1665
 Mereles D.: P265, P287
 Merita Rroji M.R.R.: 1081
 Merkely B.: 1141, 1158, 434, 607, P1351, P1407, P1434, P1558, P1770, P1772, P1775, P367, P630
 Merli E.: P802
 Merlo P.: P1760
 Merlo P.M.: P924
 Merot J.: 1037, P283
 Mershina E.A.: P1573
 Mertens L.: P1713, P752
 Mesa Rubio D.: P1337, P1474, P895
 Messika-Zeitoun D.: P653
 Mestanik M.: P1219
 Mester A.: P341, P343
 Methia N.: P1385, P1736, P674
 Metschies G.: P1544

Meurling C.: P1710
 Meyer A.: 433
 Meyer P.: 412
 Meyers B.: 170
 Mezzadra M.: P1291
 Mghaieth Zghal F.: P1767
 Miari N.: P787
 Micali L.: P1769
 Michalowska I.: 1091
 Michalowski L.: P368
 Michalski B.: P1231
 Michalski B.W.: P1239
 Michas G.: P1653, P1750
 Michaud M.: P253, P650
 Michelena H.I.: P355
 Michelis I.: P1341, P743
 Michels M.: 1040
 Michielon G.: 1027
 Michiels V.: P194
 Mielczarek A.: P721
 Miglioranza M.H.: 114
 Migliorini A.: P722
 Migone G.: P888
 Miguélana J.: 1606
 Mihai C.: P703
 Mihaila-Baldea S.: 1026
 Mihajlovic M.: P308
 Mihalcea D.: P780
 Mihaljevic T.: P1504
 Mikle R.: P630
 Mikovic Z.: P203, P299
 Milan A.: 1083, 497, P1529, P741, P795
 Milanese O.: P638, P904
 Milano E.: P325, P944
 Milasan A.: P365
 Milasinovic D.: P1307
 Milasinovic G.: P1302
 Milewski P.: P231
 Milic V.: P891
 Milicic D.: P951
 Militaru S.: 1160, 535
 Miljkovic T.: P772
 Milkas A.: P1341, P743
 Milleron O.: P1798
 Milner J.: P1424, P323, P662
 Milovancev A.: P772
 Mimbrero M.: P369, P737
 Mimoso J.: P835
 Min P.K.M.: P1389
 Mina C.: P355
 Minamishima T.: P1510, P771, P937
 Minardi S.: P639, P935
 Minarik M.: P1219
 Mingo S.: P1720
 Mingo Santos S.: P1348, P900
 Mingrone G.: 1083
 Minguito Carazo C.: 1077
 Minners J.: 609
 Minoiu C.: P191
 Miraldi F.: P208
 Mirea O.: P804
 Mirhadi E.: P1488, P1490

Mirmaksudov M. S.: P1354
 Misaki Y.: P748
 Miskowicz D.: P1231, P1239, P1245
 Mistinova M.: P1219
 Mitevska I.: P1426
 Mitkowski P.: P1335
 Mitroi C.: P1348, P1720, P900
 Mitrovskaja S.: P1296
 Mitsuda H.: P1510, P771, P937
 Miura S.: P1336
 Miura T.: 560
 Miyagawa K.: P760
 Miyamoto J.: 1033
 Miyayama T.: 560
 Miyazaki S.: P1247, P1321, P1464, P689
 Mizote I.: P1722
 Mizukoshi K.: P1352
 Mizuno R.: P812
 Mladenovic A.: 1147
 Mladenovic Z.: 1614, P891
 Mladenow A.: P331
 Mo J.: P676
 Moarcas M.: P1431
 Moccetti F.: 112, 420
 Moccia S.: P1551
 Mocerri P.: P1518, P1774
 Mochula A.: P977
 Moczulska B.: P1681, P1688
 Modas Daniel P.: P1506
 Modine T.: 1032
 Moegelang R.: P1374
 Mogelang R.: P1228
 Mogelang R.M.: 1021
 Mohan A.: 495, 88
 Mohd S.H.A.W.A.L.: P631
 Mokhtar M.: 92
 Molardi A.: 1086
 Moldovan H.: P1677
 Moller T.: P1713
 Molnar A.: P1434
 Molnar A. A.: P1775
 Molnar F.: P290
 Molnar L.: P1434
 Molon G.: P1520, P1730, P1733, P232
 Mombelli G.: P792
 Monaghan M.: 431, P1716
 Monaghan M. J.: P975
 Monda V.: P186, P882
 Mondillo M.S.: P855
 Mondillo S.: 1201, P639, P935
 Mondillo S.M.: P334, P337
 Mondouagne Engkolo L.P.: 412
 Monge Garcia I.: P972
 Monivas Palomero V.: P1348, P900
 Monivas V.: P1720
 Moniz Mendonca F.M.: 1616, P1253
 Monmeneu J.V.: 1195
 Monney P.: 121, 412, P818
 Monno R.: P906
 Mons Lera R.: P264
 Monserrat L.: 1044
 Mont L.: P903

Mont L.L.: P1809
 Montaigne D.: 1032, P914
 Montaudon M.L.: P1554
 Monte I.: P1728
 Monte I. P.: P1419, P1769
 Monte M.: P1769
 Monteagudo J.: P656
 Monteagudo J.M.: 1132, 119, P289, P718, P956
 Monteagudo Ruiz J.M.: P1394, P1543, P874
 Monteforte I.: P186
 Monteiro A.: 164, 166, P311
 Monteiro A.V.: 1648
 Monteiro J.M.: 1616, P1253
 Monteiro J.P.: P1444
 Monteiro R.: P1363, P1400, P1430
 Monteiro S.: P1424, P662, P976
 Montella M.: P332, P906
 Montenegro Sa F.: P1392, P225
 Montero Argudo A.M.A.: P1802, P356
 Monterroso J.: P352
 Monti L.: P226
 Montorfano M.: P1368
 Montorsi P.: 558
 Montserrat S.: P369, P737, P903
 Moon Y.: P1698
 Moon Y.-J.: 561
 Moore S.: P853
 Mora Cuesta V.: P264
 Mora Llabata V.: P1764
 Mora V.: P1751, P1760, P306, P704
 Morabito C.: P862
 Morais C.: 1079, P1267, P1429, P1661
 Morais J.: P1392, P225
 Morais L.: P1506
 Morais L.A.: P1657
 Moral S.: P197, P647
 Morales D.: P781
 Morales D.L.C.: 469
 Morales M.: P197, P369, P647
 Morano T.: P1793
 Morariu M.: P343, P344
 Mor-Avi V.: 1038, P318, P324
 Morbach C.: P1785, P195
 Morbidoni J.: P358, P363
 Moreira H.T.: P1350
 Moreira J.I.: 472, P1726, P696
 Morell Cabedo S.M.C.: P1802, P356
 Moreno J.: P1507, P1787
 Moreno-Betancur M.: P1229
 Moreo A.: P1535, P1684, P1728
 Moretti C.: P1529
 Morgado G.: P1367
 Morgunov M.: 1152
 Mori F.: 1044, P924
 Morillas Arino C.: P1764
 Morimoto R.: P1247, P1321
 Mornos C.: P1220
 Moroi M.: P1421
 Morozov A.N.: 419
 Morrone D.: 41, P1356, P665
 Morsi N.: 93, P245, P246
 Moshkani Farahani M.: P312

Mot S.: P1269, P1437
 Mota Carmo M.: 422
 Motiejunaite J.: P1312
 Motoc A.: P194
 Motreva A. P.: 1647
 Mouillet G.: 556
 Mountaki V.: P1653
 Moura A.R.: P886, P890
 Moura Branco L.: 164, 166, P1506, P1687, P311, P749
 Moura Ferreira J.: P835
 Moura-Branco L.: P1280
 Moura-Ferreira S.: P1663
 Murali M.S.: P1767
 Mouton S.: 1032, P914
 Moya J.L.: P1787
 Moya Mur J.L.: 1085, P1394, P1731, P663, P874, P885
 Moz M.: 472, P1726, P696
 Mrdovic I.: P1761, P1808, P263, P308
 Mrikaev D.: P1491
 Mrikaev D.V.: P973
 Mucedola F.: P1793
 Muderrisoglu H.: P816
 Mueller-Hennessen M.: P265
 Mufti H.N.: 476
 Mukai T.: P1722
 Mulder B.: P905
 Mullens W.: 111, 45
 Muller H.: P1782
 Muller O.: 121, P818
 Muniz Garcia J.M.: P1377
 Munoz T.: P655
 Murai D.: P1478, P1485, P282
 Murakami T.: 1033, P848
 Murakami Y.: P1477
 Murakoshi N.: P908
 Muramatsu T.: 1611, P1473
 Muraru D.: 537, 538, 544, P1217, P1517, P1718, P1771, P1806, P1807, P1810
 Murat A.: P1442
 Muratori M.: 123, P1441, P1773, P1776, P318, P715
 Murphy S.: P923
 Murzi B.: 165
 Musa C.: 469
 Musca F.: P1684
 Muscogiuri G.: 547, 559, P1540, P1551, P1556, P347
 Mushtaq S.: 547, 558, 559, P1540, P1556, P347
 Mutlak D.: P871, P872
 Muto K.: 416
 Mutuberria M.: 1195
 Myerson S.G.: P1393
 Myrberg T.: P296
 Mysiak A.: 409, P259

N

Naccarato A.G.: P883
 Nadirpour S.: P1469
 Nadruz Jr W.: P1480, P1501, P729

Naegeli B.: P878
 Naejie R.: P321
 Nagai T.: 1033, P760
 Naganur S. H.: 498
 Naganura F.: P185
 Nagata Y.: 544
 Nagel E.: P211, P623
 Naghashzadeh F.A.R.A.H.: P827
 Nagueh S.F.: 415
 Nagy A. I.: 434, P1407
 Nagy A.I.: P1434, P1780
 Naiden T.V.: P236, P619, P759
 Naidoo D.P.: P1286
 Naidu S.: 470
 Nakada Y.: P1297, P1318, P244, P812
 Nakai T.: P1259, P1732
 Nakaji S.: 560
 Nakamura K.: P1788
 Nakamura M.: P1421
 Nakamura S.: P834
 Nakamura Y.: P1702
 Nakano M.: 1033
 Nakano T.: P812
 Nakashima M.: P185
 Nakatani S.: 415, P1722
 Nakazawa G.: 1033, P848
 Nakazawa N.: P272
 Nakou E.: P800
 Nakou H.: P302, P955
 Nam C.-W.: 611
 Nanjo H.: P1398
 Napoletano C.: P335
 Napolitano G.: P1793
 Nappi L.: 118
 Narciso M.: P1448
 Nardinocchi P.: P285
 Nartsissova G.P.: P190
 Narula J.: 607
 Narziev B.: P702
 Narziev B.I.: P815
 Nascimento H.: 86, P222, P238, P846
 Nasifov M.: P1442
 Nasser N.: P253
 Natale F.: P248, P362
 Natasza Gilis-Malinowska N.G.M.: P1734
 Navarra J.L.: 1155, 1199
 Navarrete Espinosa M.I.: P1465
 Navarrete G.: 1615
 Navarro M.: 120
 Navarro Rico S.: P1348, P900
 Nazeyrollas P.: P1314
 Neagu C.: P1533
 Neagu M.S.: P1676
 Nedeljkovic I.: P682
 Nedkova M.: P305
 Nedrebo B.G.: P1469
 Neffati E.L.Y.E.S.: P1224, P628
 Nega B.: P717
 Negishi K.: P1464
 Negishi T.: P1464
 Negrier C.: P1301
 Negroni M.S.: P1737

Nelassov N.: 1152
 Nemchyna O.: 433, P294
 Nemes A.: P1388, P1496, P1739, P1765, P738, P940, P942, P943
 Nemeth E.: 1141
 Nepper M.L.: 47
 Neto A.: P1252, P690
 Neto M.: P1444
 Neto M.N.: 1616, P1253
 Netti P.A.: P1409
 Neumann F.J.: 609
 Neves A. L.: P352
 Neves J. P.: P1683
 Neves J.P.: 502
 Neves Sebaiti D. H.: P1215, P625
 Newton D.J.: P1735
 Nguyen A.: P1557
 Nguyen D.N.: P897
 Nguyen K.: P1517, P1810
 Nhan P.: P1523
 Nicolaeva E.: P212
 Nicoletta C.: 1149
 Nicoli F.: P1441
 Nicolini F.: P960
 Nicolini P.: 95
 Nicula A.I.: P1284
 Niedziela J.: P1242, P709, P763
 Niedziela J. T.: P234, P267
 Niemers M.: P265
 Nienhuis H.L.A.: 613
 Nietlispach F.: 113
 Nifontov S.E.: 419
 Nihoyannopoulos P.: P1326, P1349, P1696, P205
 Nikcevic G.: P1302
 Nikishin A.G.: P699
 Nikolaeva O.: P1432
 Nikolic L.J.: 1148
 Ninan T.: P1293
 Ninni S.: 1032
 Nishi T.: P1315
 Nishikawa H.: 411
 Nishino S.: P629
 Nishio R.: P1321
 Nishio S.: 555, P1375, P1574
 Nishiyama H.: P1247, P689
 Nistri S.: P1484
 Nitipir C.: P233
 Nkomo V.T.: P1371
 Noack T.: P1486
 Noamany M.F.: 1042, P1511
 Nobre A.: P666
 Nobre De Matos Pereira Vieira M. J.: P1519, P886
 Nogales-Romo M.T.: P1568, P700
 Nogales-Romo T.: 1097, 1615
 Nogi K.: P1259, P1732
 Nogi M.: P1297, P1318, P244
 Noguchi K.: P1477
 Nogueira I.: P1463
 Noni M.: 1136, P196
 Noor L.: P1659

Noordzij W.: 613
 Nordbeck P.: 417, P1755, P887
 Norderfeldt J.: P1466
 Noris M.: P1299, P1497
 Noris Mora M.: P1720
 Norvilaite R.: P1312
 Nourian S.: P312
 Novikov V.I.: P759
 Novo G.: 1034, 423, P1320, P1508, P1572, P917
 Novo S.: P1508, P917
 Nowak A.: P1335
 Nowak B.: P1243, P1380, P762
 Nowak J.: P1242, P763
 Nowak J. U.: P234
 Nowak R.: 1046, P309
 Nowakowski R.: P1243, P1380, P762
 Ntoskas T.: P1666
 Nucci G.: P219
 Nugara C.: P1508, P1572, P917
 Nunes A.: 116, P222, P831, P964
 Nunes Ferreira A. M.: P724, P876
 Nunes-Ferreira A.: P1534, P1783
 Nunez C.: P306
 Nunno L.: P369, P737
 Nuyts J.: 413, P962
 Nuzzi V.: P285
 Nyandiko W.: P756
 Nyulas T.: P341

O

Oabdesselam S.: P674
 Obase K.: 560, P1289
 Obradovic S.: P891
 Obradovic Slobodan O.S.: 1614
 Ochoa Jimenez R.C.: 537, 544
 Ochoa-Jimenez R.C.: 538, P1517, P1718
 Ochotny R.: P1335
 Ociessa A.: P267
 Odland H.H.: 415
 Oertelt-Prigione S.: P636
 Ofek-Epstein H.: 541
 Oguz D.: P1371
 Oh D.-J.: P821
 Oh Y. Z.: 478
 O'herlihy C.: P719
 Ohnishi Y.: P1530
 Ohno Y.: 1033, P848
 Ohshiro C.: P1477
 Ohta T.: 1078
 Ohtani H.: P851
 Ohtani T.: P1722
 Ohte N.: 416
 Ojeda Pineda S.: P1474
 Okabe R.: P185
 Okada S.: 1078
 Okai I.: P689
 Okamura A.: P1318
 Okayama S.: P1297, P1318, P244, P812
 Okazaki S.: P1321
 O'keefe E.: P1459
 Okleh N.: P854
 Oko-Sarnowska Z.: P1335

Okuda S.: P969
 Okumiya K.: P1460
 Okura H.: P1297, P1318, P244, P812
 Okuyama K.: 1135
 Okuyan E.: P1241
 Olalla Antolin J.J.: 1610, P852
 Olaru G.: P626
 Olezov N.V.: P783
 Olgun Kucuk H.: P1371
 Oliveira C.: P1667, P252, P678
 Oliveira C. C.: P1435
 Oliveira Da Silva C.: P817
 Oliveira I.: P1252, P1724, P293
 Oliveira J.: 164, 166
 Oliveira J.A.: 1648, P1280, P673
 Oliveira L.: 422, P1663
 Oliveira L.F.L.: P1350
 Oliveira M.: 422, P1499, P1724, P293
 Oliveira M.J.: P700
 Oliveira S.: P749
 Olivera M.J.: 1097, P1568
 Olivotto I.: 1041, 1044, P1356
 Olmos C.: P1555
 Olsen F. J.: P1290
 Olsen F.J.O.: 1021
 Olsson A.: P750
 Olympios C.D.: P1331, P1741, P786
 Olympios C.H.: P1495
 Omosola A.: P1420
 Omuro A.: P969
 Onaandia Gandarias J. J.: P811
 Onalan O.R.H.A.N.: P1440
 Onciul S.: 124, P1376, P295
 Onder O.: P351
 Onel M.F.: P794
 Oneto Fernandez J.: P1337, P895
 Oneto Fernandez M.J.: P1474
 Onishi T.: 436, P1722
 Ono H.: P748
 Onorati F.: 1136, P1484, P196
 Onoue K.: P812
 Onoue Y.: P834
 Onur I.: P1442
 Onut R.: P191, P295
 Oomen T.: 1037
 Opincariu D.: 562, P343, P344
 Opolski G.: 43, P1279, P1319, P1364, P1536, P1723, P1816, P684, P826
 Oraby M.: P1766
 Orbach A.: P871, P872
 Oria Garcia G.: P811
 Orihuela C.: P779
 Oristrell G.: P1542
 Orlic D.: P1307, P912
 Orlov D.: P766
 Orłowska M.: 425, 545, 551
 Orosz P.: P1434
 Orsini E.: 471, P665
 Ortega E.: 1085, 1606, P1281, P1446, P1515, P1747, P656, P916
 Ortiz De Salazar A.: 1607
 Ortiz Leon X.A.: 1137, P1752

Ortiz-Leon X.A.: P1323
 Ortman S.: 1032
 Orzan M.: P341
 Oseguera J.: P779
 Oshima T.: 1078
 Ostenfeld E.: P1795
 Ostojic M. C.: P682
 Ostojic M.C.: 1147
 Ostojic Z.: P951
 Ostrowski M.: 115
 Ota M.: 1031
 Ota S.: P1762
 Ota T.: P1477
 Otaegui I.: 432, 435
 Otani K.: 544
 Otero Chulian E.: P723
 Otero E.: P972
 Othman F.: P262
 Otsuji Y.: 544
 Ouali S.: P1767
 Ouatu A.: P697
 Ouazani N.: P1509
 Oukerraj L.: P250
 Overeinder I.: P194
 Oxenius A.: 542
 Ozabalova E.: P1571
 Ozaki Y.: 1611, P1473, P1788, P672
 Ozben Sadic B.: P1492, P1498
 Ozden S.: P893
 Ozdil H.: P1492, P1498
 Ozkalayci F.: P1222, P181, P618
 Ozpelit E.: P1436

P

Pac F. A.: P1451
 Pache G.: 609
 Packwood W.: 112, 420
 Padler-Karavani V.: P1725
 Padron Encalada R.: P693
 Paeng J.C.: 607
 Pagliacci M.: P808
 Pagourelas E.: 413, P1325, P804, P962
 Pais J.: P1545
 Paiva M.: 86, P831
 Palacio Solis M.: P1226, P192
 Palacios Echavarren C.: 1077
 Palacios-Rubio J.: P1555
 Palazzuoli A.: P1547
 Palermo C.: 538, P1517, P1718, P1807, P1810
 Palionis D.: P1546
 Pallardy A.: 438
 Palmiero G.: P186, P882
 Palumbo A.: 1082, P1660
 Palumbo A.A.P.: P1800
 Palumbo M.C.: P1365
 Paluszkiwicz L.: P1521
 Paluszkiwicz R.: P368
 Pan Alvarez-Ossorio M.: P1337, P1474, P895
 Panajotu A.: P1407
 Panizza A.: 553
 Panknin S.: P1699
 Pannarale G.: P285

Panoulas V.F.: P1696
Panourgia C.: P1750
Panta S.: P1445
Paoli G.: P960
Paolini C.: P1668
Papachristidis A.: 431, P975
Papadakis M.: P1454
Papadavid E.: P1395, P913
Papadopoulos A.: P313, P921
Papadopoulos A.P.: P1254
Papadopoulos C.: P313, P767, P921
Papadopoulos C.E.: P804
Papadopoulos G.: P302
Paparoni S.: P335
Papovic J.: P772
Papp R.: P1407, P1434
Pappalardo F.: P845
Pappas K.: P1433
Pappone C.: P731
Parato V. M.: 1649, P1654, P1669, P660
Pardo A.: P656, P663
Pardo Sanz A.: 1132, 119, P1394, P1731, P289, P718, P885, P916, P956
Paredes Gonzalez B.: P769
Paredes Hurtado N.: P1474, P895
Paredes J.: 1027, P744
Paredes J.S.: P740
Parga Filho J.R.: P807
Parikh R.: 533, P1423, P617
Parisi F.: P948
Parisi V.: P1789, P952
Parissis J.: P1528, P953
Parizel P.: P974
Park C.: P644, P645
Park C. S.: 554
Park C.S.: P1401, P1690, P774
Park D.-G.: P821
Park D.H.: P1727
Park H.J.: P1525
Park J.: 607
Park J. H.: P1746
Park J.B.: 1023, 414, 605
Park J.C.: P1525, P1708
Park J.H.: 1023, 414, P1708
Park J.-H.P.: 554
Park J.I.: P1475
Park J.J.: 1023, 414
Park J.J.P.: 554, 554
Park J.S.: P1475
Park J.Y.: P268
Park K.: P1475
Park M.P.: P897
Park S. J.: P910
Park S. W.: P910
Park S.H.: 606, P268
Park S.J.: 1036, P1698
Park S.-J.: 1200, P376
Park S.M.: 1140, 549
Park S.-M.: 610
Park S.W.: 1036, 1200, P1262, P1698, P1708, P376
Park T.-H.: P1475

Park Y. H.: P1560
Park Y.H.: P857
Parshkevova P.: P1340
Parthenakis F.: P302, P955
Partyka M.: P360
Pasamar L.: P1299, P1497
Pasanisi E.: P1532, P220
Pasanisi F.: P1234
Pascaretta A.: P279
Pascual Izco A.: P1543
Pascual Izco M.: 120
Pascual M.: 1606
Pasic M.: 433
Pasquet A.: 535, P870
Pasquini A.: P659
Passiatore M.: P883
Passos R.: P314
Pasta S.: P355
Patel A.: 533, P617
Patel A.R.: P324
Patel K.: P1430, P1693
Patel N.: P1400
Paterni M.: P924
Paterson C. A.: P243
Patil D.: 533
Patrascu N.: P1676
Patrianakos A.: P302, P955
Patru A. C.: P680
Paul J.-F.: P1798
Paula Fazendas P.F.: P1215
Paunovic I.: P735
Pavicevic J.: 542
Pavlidis G.: P1342, P1395, P913, P953
Pavlis G.: P951
Pavlova N. E.: P683
Pavlova N.E.: P236
Pavlukova E.N.: P190
Pavlyukova E.: P1391, P813
Pavone-Gyongyosi M.: P716
Pawar A.: 533
Pawel Miekus P.-M.: P1734
Pawlowski J.: P1406
Paya Serrano R.P.S.: P1802, P356
Pecoraro A.: P198
Pecoraro R.: P1448
Pedersen S.: P1290
Pedri S.C.: P755
Pedri S.P.: P751
Pedrinelli R.: 410, 471, P1704, P258, P665, P867, P868
Pedrizzetti G.: P1565, P970
Pedrizzetti G.P.: P751
Pedrosa J.: 425, 545, 551
Pedrotti P.: P1684
Pehlivanoglu S.: P1222, P181
Pektas .: P281
Pelicano N.: P1663
Pellegrino M.: P226, P657, P851
Pelliccioni S.: P660
Pellicori P.: P285
Pellikka P.A.: P1371
Pellizzer E.: P638

Penco M.: P219
Penela D.: P1809
Penicka M.: P1341, P1346, P1464, P651, P743
Peovska Mitevska I.: P1801
Pepi M.: 1038, 123, 547, 558, 559, P1441, P1540, P1551, P1556, P1773, P1776, P318, P347, P378, P715
Peral V.: P1299, P1497
Perea O.G.: P358, P363
Pereira A.: P1444
Pereira A.R.: 1100, P1361, P1367, P1562, P1673, P666, P764, P980
Pereira D.H.: P1444
Pereira E.: P839
Pereira E.R.: P1444
Pereira H.: 1100, P1353, P1361, P1367, P1562, P1673, P666, P764, P884, P980
Pereira V. H.: P314
Pereira V.H.: P1667, P1671
Peres M.: P251, P890
Perez Bosca J.L.P.B.: P1802, P356
Perez Contreras E.: P1758, P775, P888
Perez De Prado A.: P348
Perez Diaz P.: 1089
Perez Gil M.: P1764
Perez Gozalbo J.: P1760
Perez Martinez M. A.: 1089
Perez Olivares C.: P1760
Perez P.: P655
Perez-Gil M.M.: P1751, P306, P704
Pergola V.: P1680
Pergolini M.: P206
Peric V.: P891
Pericas P.: P1299, P1497
Perkan A.: P286
Perlini S.: P798
Pernencar S.: P225
Pernigo M.: 1136
Perolo P.: P1230, P1304, P1458, P1539, P796
Perone F.: P219
Persampieri S.: P1737, P865
Persson H. E.: P1466
Peruga J.Z.: 39, P1406
Pescariu S.: P1220
Pessoa-Amorim G.: 546, P707
Pestelli G.: P1704
Peteiro J.: 1044
Peteiro Vazquez J. C.: P927
Petermann A.: P1552, P1557, P373
Peters T.: P1814
Petersen C.: P1532, P220
Petersen J. R.: 47
Petersen S.E.: P1548
Petit T.: 42
Petkar S.: P1666
Petraglia L.: P1789, P952
Petre I.: P307
Petrella L.: P335
Petrescu A.M.: 425, 545, 551
Petrie M.C.: P765
Petrini J.: P750
Petronilli V.: 1154, P1489

Petronio A.S.: P883
 Petrovic D.: 1148
 Petrovic I.: P978
 Petrovic M.: P1237, P1302, P203, P299, P735
 Petrovic M. T.: 1147, P682
 Petrovic O.: P1237, P1307, P203, P299, P735, P803, P912
 Petteimerides V.: 1605
 Peyman S.: P658
 Pezzella R.: 1133, 1149, P919
 Pfeiffer D.: P1383
 Phetcharat S.: 163
 Piatkowski R.: 43, P1319, P1364, P1723, P1816
 Piazza R.: P1448
 Pibarot P.: P1287
 Pica S.: P1540
 Picano E.: 1034, 1041, 1044, 1147, 1153, 39, 41, 44, 46, P1356, P1792, P803, P924, P928, P929
 Picarra B.: P1545
 Piccinino C.: 553
 Picoi E.: 471
 Piekarska A.: P788
 Pierard S.: 1025
 Pieske B.: P1544
 Pietrzyk E.: 475, 475
 Piga A.: P1298
 Pilati M.: P1448
 Pilato M.: P1572, P355
 Pilichowska-Paszkiel E.: 90, P688
 Pinamonti B.: P286
 Pineau O.: P1314
 Pinho P.: P222, P678
 Pinho T.: P222, P831
 Pinto F.: 164, 1648, 166, P1280, P1499, P673
 Pinto F. J.: P1534, P1783, P724, P876
 Pinto F.J.: 1198, P1781
 Pinto P.: P1252, P238, P690
 Pinto R.: 86, P846
 Pinto Teixeira P.: P311
 Pinto-Teixeira P.: P728, P967
 Piovaccari G.: P230, P808
 Piovano E.: 497
 Pipertzi A.: P1341, P743
 Piras P.: P1522, P285
 Pirat B.: P816
 Pires Rosa G.: P222
 Piriou N.: 1037, 438
 Pirisi M.: P321
 Pirnazarov M.M.: P699
 Piros G.A.: P738
 Pisani A.: P292
 Pisaniello M.: P198
 Piscione F.: P1479, P276, P320
 Piscopo G.: P1405, P1409
 Pisimisis E.: P787
 Pislaru C.: P1371
 Pislaru S.O.R.I.N.: P1379
 Pislaru S.V.: P1371, P338
 Pitic D.: P295
 Pitta L.: P886, P890
 Pitta M.L.: P1483, P241, P251
 Piu P.: 1201

Pivovarova S.: 125
 Piwowar M.: P892
 Pizzuti A.: 497
 Pizzuto A.: 471, P665
 Placido R.: 1198, P1534, P1783, P724
 Plataki M.: P302, P955
 Platon P.: 496, P1223
 Platonov P.G.: P736
 Plaza Martin M.: 1085, 120, P1281, P1322, P1446, P1543, P720
 Plaza Perez I.: P769
 Plein D.: P194
 Plevnik G.: P1685
 Plewka M.: 39
 Plicht B.: P892
 Plonska E.: P372
 Plotnikov M.V.: P1738
 Ploux S.: 1022
 Podolec P.: 550, P1306, P224, P254, P648, P649, P698
 Poenar A.: 539
 Poggianti E.: P1532, P220
 Poggio D.: P747
 Pola R.: P659
 Polistina G.: 1149
 Polito M. V.: P276
 Poloczko H.: P1571
 Poltavskaya M.G.: P1470
 Polte C.L.: P277
 Pontes Dos Santos R.: P1252, P690
 Pontone G.: 123, 547, 558, 559, P1540, P1551, P1556, P1776, P347, P802
 Pop D.: P844
 Popescu A. C.: P233
 Popescu B.: 496
 Popescu B. A.: P1416, P825
 Popescu B.A.: 1039, 1043, 1160, 499, P1218, P1223, P1464, P1691, P626, P680, P797, P801, P869, P922, P966
 Popescu M.I.: P189
 Popescu R.: P365
 Pop-Moldovan A.: P794
 Popolo Rubbio A.: P329
 Popov S.V.: P255
 Popovic D.: P978
 Porpacz A.: P1271
 Porretta V.: P219
 Porterie J.: 539
 Portero Portaz J.J.: 1090, P814
 Portugal G.: 422, P311, P749
 Posada E.L.: P1323
 Posada Martinez E.L.: 1137
 Posada Martinez L.E.: P1752
 Posas F.E.: P1503
 Possner M.: 542
 Posteraro A.: P1728
 Poteskina N.G.: P1573
 Pouleur A.C.: 1025, 535
 Pozo E.: P1568
 Pozzi R.: P1298
 Pozzoli A.: 113
 Prakaschandra R.: P1286

Prasad S.K.: P1696
 Predescu L.: 496, P1223, P191
 Prendergast B.D.: P1393
 Preradovic-Kovacevic T.: P924
 Pressman G.S.: P1715, P1727
 Previano M.: 538, P1718
 Previtero M.: P1217, P1810
 Prevot G.: P1552
 Price S.: P1682
 Prieto Gonzalez S.: 1077
 Prieto Moriche E.: P769
 Prinzen F.W.: 1022, 421
 Privitera F.: P1419, P1769
 Privorotsky V.: P1274
 Prokselj K.: P1712
 Prota C.: 1027, P1479, P320, P740, P744
 Prothero A.: P1393
 Provenza G.: P1479
 Provenzano S.: P1789, P952
 Przewlocka-Kosmala M.: 409, 548, P259
 Przybylski P.: 557, P346
 Przybysz-Zdunek B.: 43
 Psarrou G.: P1331
 Ptomey L.: P1763
 Puddu P.E.: P1522, P285
 Pudil R.: P1359
 Puggia I.: P1448
 Pugliese N. R.: 410, P1704, P258, P867, P868
 Pugliese N.R.: 1020, P1532, P883
 Pugnet G.: P1552
 Pugno A.: P1737
 Puhlmann K.T.: P1521
 Puiu M.: P844
 Pujol-Lopez M.: 437
 Pulmari C.: P358, P363
 Puntel G.: 117
 Puntmann V.: P211
 Puntmann V.O.: P623
 Puppini G.: 117, P624
 Purcar O.: P691
 Puschita M.: P794
 Putra T. M. H.: P278
 Putra T.M.H.: P1553, P284
 Putti C.: P638
 Pyda M.: 168
 Pyka L.: P1242, P234, P267
 Pyka L.: P763
 Pylev A.V.: P1573
 Pytkowski M.: P1403

Q

Qanadli S.: 121
 Qasim A.Q.: P897
 Qi Y.: 112
 Quagliariello V.: P1405, P1409
 Quarta C.C.: P798
 Quick S.: P1366
 Quina-Rodrigues C.: P1667, P252
 Quintana E.: 437
 Quintana Raczka O.: P811
 Quraini D.: 1645

R

R Sousa A.: 502
 R Torres M.A.: 1041
 Rabczenko D.: P1816
 Racz K.: 1141
 Raczak G.: 1046, P1748, P309
 Radano I.: P320
 Radegran G.: P1710
 Radisic B.: P772
 Radmili O.: 1147
 Radmilovic J.: 1133, P377, P919
 Radova N.F.: P1358
 Radu S.: P697
 Radulescu B.: P1691
 Radulovic J.: P1308, P878, P898
 Raduta I.: P365
 Rady M.: P1366, P319
 Raffa G.: P1572, P355
 Rafie I.: P854
 Raftopoulos L.: P1362, P1779
 Rahman Haley S.: P1493
 Rahmat Ghaffar Albegali R.G.: P652
 Raimondi Cominesi D.: P1404
 Rajdev S.: 88
 Rakhimova R. A.: P1354
 Rakocevic I.: P735
 Rakowski T.: P1397
 Ramachandran K.: P1326
 Ramalhao C.: P1504
 Ramalho C.: P352
 Ramalho M.: P1562, P980
 Ramalho R.: P662
 Ramelli A.: P960
 Ramirez Escudero G.: P836
 Ramirez P.: P928
 Ramirez-Escudero G.: 1607, P1425
 Ramirez-Escudero Ugalde G.: 94, P223, P725, P761
 Ramis Barcelo M.F.: P1299, P1497
 Ramos Jimenez J.: 120, P1322, P1543, P270, P720
 Ramos Martinez R.: 1090
 Ramos R.: P1280
 Ramos-Cazares R.E.: P1300
 Ramotowski B.: 90
 Ranieri F.: P866
 Ranjan R.: P1715
 Ranjbar S.: P1700, P1701
 Rantetampang A.L.: P1460
 Rao S.J.V.: 476
 Raptopoulos L.: P945
 Rasa Karaliute R.K.: P1292
 Rasalingam R.: P1251
 Rascon Sabido R.: P1372, P339, P694
 Rasmusen H. K.: P1344
 Rat N.: 562, P1815, P341, P343, P344
 Ratiu M.: 562, P341, P343, P344
 Ratkovic N.: P891
 Ratkovic Nenad R.N.: 1614
 Rauch-Krohnert U.: P1502
 Rauseo E.: P1735
 Ravagnani P.: 558

Ray S.: 1605
 Raza S.H.: 493
 Re F.: 1041, 1044, P1356
 Reant P.: P253, P650, P879
 Reda A.A.: P1744
 Rees E.: P1481
 Referowska M.: 90
 Reffo E.: P904
 Rega F.: 413, P962
 Regamey J.: 412
 Regitz-Zagrosek V.: P636
 Regueiro A.: P1467, P330
 Reil G.-H. R.: P858
 Reil J.C.: P1316, P858
 Reimers B.: P851
 Reis C.: P327, P938
 Reis C.A.R.L.A.: P1360
 Reis E.: P806
 Reis J.: 166, P1687
 Reis L.: P1301, P1519, P806, P809, P810
 Remme E. W.: 552
 Remme E.W.: 415, 424
 Ren B.: 1609
 Requena Ibanez J. A.: 1089
 Resende C.: 116, P964
 Resende C.X.: P1236, P1240
 Reskovic Luksic V.: P951
 Resta M.V.: P1404
 Rettegno S.: P782
 Revenco V.: P1396, P794
 Rey Carreras E.: P725
 Rey E.: 1607
 Reyaldeem R.: P209
 Reynaud A.: P253, P650
 Rezaei Y.: P260
 Rhee K.S.: P1343
 Riahi L.: P1664
 Riant E.: 556
 Ribatti V.: P906
 Ribe M.: 536
 Ribeiras R.: P327, P938
 Ribeiro Carvalho R.: P225
 Ribeiro F.: P1499
 Ribeiro F.F.F.: P1350
 Ribeiro P.: P936
 Ribes D.: P1552, P911
 Ribichini F.: P1411
 Ribichini F.L.: 1136, 117, P1329, P1347, P1412, P1450, P1456, P1484, P196, P214, P624, P899
 Riccardi R.: 497
 Ricci F.: P1548
 Riccio E.: P292
 Richard B.: P1314
 Richards D.: 1045
 Rickenlund A.: P711
 Ricksten S.-E.: P1378, P291
 Ridolfi I.: P1298
 Ridolfi L.: P1529
 Ridon H.: 1032, P914
 Riebel C.: P1266
 Riebel C.I.: P1269, P1437
 Riegler L.: P377

Riesgo Garcia A.: P1226, P192
 Rigade S.: P283
 Righini F.: 123
 Rigueira J.: P1534, P1783, P724, P876
 Rihal C.S.: P1371
 Rim S.J.R.: P1389
 Rimbao R.C.: 1026, P1284
 Rimkus A.: 1161, P1546
 Rinaldi M.: P805
 Rincon Diaz L.M.: P1731, P885
 Rinelli G.: P896, P948
 Rio P.: P1506, P1657, P311, P749
 Ristic A.: P891
 Risum N.: P301, P745
 Ritter P.: P650
 Rivero F.: 1097, 1615
 Robazza C.: P1244
 Roberto De Ponti R.D.P.: 89
 Roberto M.: P715
 Robinson J.: P243
 Robledo-Carmona J.: P1799
 Roccasalva F.: P657
 Roche L.: P1293
 Rocon C. R. L.: P807
 Rodean I.: P340
 Roderiguez Ziccardi M.C.: P1715
 Rodoman G.: P766
 Rodrigo Carbonero D.: P655
 Rodrigues A.C.: P1369
 Rodrigues I.: 422, 422, P1415, P1506
 Rodrigues J.: 86, P831
 Rodrigues R.: P1444, P846
 Rodrigues R.A.: 86
 Rodrigues T.: P1783
 Rodrigues-Sousa A.: P238
 Rodriguez A.: P1299, P1497
 Rodriguez A.M.: P229
 Rodriguez Arias J.J.: 437
 Rodriguez Diego S.: P1337, P895
 Rodriguez Entem F.: 1610, P852
 Rodriguez Garcia J.: 1195
 Rodriguez Munoz D.: P1787
 Rodriguez Palomares J.F.: 1195, 1197
 Rodriguez Redondo L.B.: P310
 Rodriguez Sanchez I.: P811
 Rodriguez Santamarta M.: 1077, P348
 Rodriguez Zanella H.: 1137
 Rodriguez Zanella H.G.: P1752
 Rodriguez Ziccardi M.C.: P1727
 Rodriguez-Palomares J.F.: 1157, 1202, 432, 435, P1542, P1550, P1799, P354
 Rodriguez-Zanella H.: P1323, P1806, P1807, P1810
 Rogge B.: P1469
 Rohani A.: P675
 Rohrbach M.: 542
 Roijer A.: P1710
 Rojas A.: 1615
 Rojas Gonzalez A.: P700
 Rojas-Gonzalez A.: 1097, P1568
 Rokutanda T.: P834
 Rokytka N.: 125

Roldan I.: P1751, P306, P704
 Roldan Torres I.: P1764
 Rollin A.: P1557
 Romagnoni C.: P332
 Romano A.R.: P334, P337, P855
 Romano G.: P355
 Romano M.M.D.: P1350
 Romano S.: P219
 Romano V.: 612, P1368
 Romeih S.O.H.A.: P217
 Romero Dorta E.: P1764
 Romero E.: P1751, P306, P704
 Romero Moreno M.: P1474
 Romero Pereiro A.: P811
 Rommel K.P.: 1199, P1486
 Roncalli J.: P373
 Rondan Murillo J.J.: P310
 Roos - Hesselink J. W.: P1275
 Roos J.C.: P1725
 Roosens B.: P194
 Roos-Hesselink J. W.: P349
 Roos-Hesselink J.W.: P968
 Roque D.: 1079, P1267, P1661
 Rosca M.: 1039, 1043, P1218, P801, P869, P922, P966
 Rosenek R.: P1309
 Rosenmann D.S.: P732
 Rosenschein U.: P1729
 Rosner A.: P752
 Rosner A.R.: P1324
 Rossi A.: 1136, 117, P1329, P1347, P1411, P1412, P1450, P1456, P1484, P1566, P196, P214, P624, P899
 Rossi R.S.: 95
 Rossner G.-A.: P878
 Rosu R.: P844
 Rotareasa M.: P1677
 Roubaud C.: P1314
 Roufas K.: P955
 Rousse G.: P1760
 Rousseau H.: P1552, P1557, P373
 Rousseau M. F.: 1025
 Roussel J.C.: P1725
 Rovai I.: 410, P1704, P258, P867, P868
 Rovida M.: P1365, P1370, P1563, P297, P641, P915
 Roxy S.: 163
 Royuela Martinez N.: 1610, P1272
 Rozado Castano J.: P693
 Rozentryt P.: P234, P267
 Rozmiarek S.: 168
 Rozwadowska K.: 1046, P1748, P309
 Ruan W.: 478, P669
 Ruanjan R.: P1727
 Ruano Calvo J.: 1610, 474, P1272, P852
 Rubis P.: 550, P1306, P224, P254, P648, P649, P698
 Rucinska M.: P1681, P1688
 Rucinkas K.: P902
 Rudolph T.: P653
 Rueda Soriano J.R.S.: P356
 Ruffini M.: P230

Rugerio-Cabrera A.: P1413
 Ruggeri Z.: 420
 Ruggiero D.: P1304
 Ruile P.: 609
 Ruisanchez Villar C.: 1610, 474, P1272, P264, P852
 Ruivo C.: P1392, P210, P225, P806, P809, P810
 Ruiz Esparza Duenas M.E.: 1137
 Ruiz Esparza-Duenas M.E.: P1323
 Ruiz Fernandez D.: P723
 Ruiz Gomez L.: 94, P1425, P223, P725, P761, P836
 Ruiz L.: 1607, P1670
 Ruiz Leira S.: P1731, P885
 Ruiz Munoz A.: 432, 435, P354
 Ruiz Ortiz M.: P1337, P1474, P895
 Ruiz S.: 1132, P289, P718, P956
 Ruiz-Esparza Duenas M.E.: P1752
 Ruiz-Munoz A.: 1157, 1202, P1550
 Rumbinaite E.: P933
 Ruoz N.: P1806, P1807, P1810
 Rus Horatiu H.R.: P1811
 Ruscica M.: P792
 Rusinaru D.: P870
 Russell K.: P643
 Russo A.: P358, P363
 Russo C.: P292
 Russo M.G.: P362
 Rusu E.: 1160
 Rutschow S.: P881
 Ruzic A.: P1743
 Ruzov V.I.: P783
 Ryabova T.: P1356
 Rydberg A.: 40
 Rymuza B.: P965
 Ryu S.K.: P1401, P1690, P268
 Rzyman W.: 115

S

Saad A.: P1751, P1760, P306, P704
 Saad N.: P670
 Saavedra Falero J.: 1652, P1250
 Sabate M.: P1467, P330
 Sabatelli L.: P865
 Sabatino J.: 1027, 167, P740, P744
 Sabbour H.: 495
 Saber Hafez M.: 503
 Sabia L.: P1529, P741
 Sablayrolles J.: P342
 Sablayrolles J.L.: P1803
 Sabnis G.: 533
 Sadawi A.: P661
 Sade L.E.: P816
 Sadeghpour A.N.I.T.A.: P1414
 Sadreddini M.: P1213
 Saed Alhakak A.: P901
 Saed D.: P1414
 Saeed S.: P873
 Saevik M.: 1134
 Sagie A.: 541, P732
 Sahara E.: P1553, P278
 Sahin T.A.Y.L.A.N.: P1714

Sahinarslan A.: P893
 Sahiti F.: P195
 Sahl R.E.: P1344
 Said K.: P1472
 Saidouamar D.: P1736
 Saijo Y.: 555, P1375, P1574
 Saito L.H.: 114
 Saito S.: P1477
 Saito Y.: P1297, P1318, P244, P812
 Sajadieh M.R.: P833
 Sakaguchi E.: 1611, P1473, P1788, P672
 Sakaguchi T.: P1214, P621
 Sakai K.: 1033, P848
 Sakai S.: P1259, P1732
 Sakai T.: P1336
 Sakamoto H.: P1265, P1575
 Sakamoto R.: P1460
 Sakata K.: P1510, P771, P937
 Sakata Y.: P1722
 Salacata A.: P1699
 Salaev O.S.: P702, P815
 Salamanca J.: 1615
 Salaru D.L.: P1482
 Saldanha Santos B.: P886
 Saleh Y.: 1095, 1098, 93, P1686, P215, P216, P245, P246, P247, P793, P828, P829
 Salem A.: P1766
 Salemi V.M.C.: P807
 Salerno T.: P329
 Salgado A.: P252, P678
 Salgado R.: P974
 Salgarello M.: P187
 Salido L.: 1132, P1515, P1747, P289, P718, P916, P956
 Salih A.: P221
 Salinger T.: 417
 Salome N.: P1667, P1671
 Salterain Gonzalez N.: P192
 Salustri A.: 473, P1471, P262
 Salvi L.: P715
 Salvini M.: P795
 Samaan A.: P1472
 Samaniego Lampon B.: P310
 Samarzija M.: P951
 Sambe T.: P789
 Sami G.: 1092
 Samiee N.: P668
 Samiei N.: P260
 Sammarco G.: P1517, P1806, P1807, P1810
 Sampaio F.: P1705
 Sampatakou H.: P773
 Samura T.A.: P734
 San Antonio R.: 437
 San Biagio L.: 1136, P196
 Sanalidro S.: P329
 Sanchez Cena J.: P264
 Sanchez Fernandez J.: P1337, P1474, P895
 Sanchez P.L.: P1665
 Sanchez Perez I.: 1089
 Sanchez V.: 1202, P1720, P1799
 Sanchez Vazquez A.S.V.: P356
 Sanchez-Martinez S.: 1024

Sanchis L.: P369, P737, P903
Sanchis Ruiz L.: P1467, P330
Sandberg M.S.: P1324
Sandrini C.: 117, P1448, P624
Sandu A.: 1093, P1796
Sandu M.: 1093, P1796
Sanfilippo M.: P1419, P1769
Sanger S.: P1659
Sanghvi M.M.: P1548
Sanhoury M.: P1686
Sannino M.: P1489
Sansalone D.: P865
Santa Clara H.: 422
Santambrogio G.: P1684
Santarelli A.: P230
Santiago Martinez A.S.M.: P694
Santinelli V.: P731
Santini C.: 410, P1704, P258, P867, P868
Santini M.: P1791
Santini P.: P1791
Santoro A.S.: P334, P337, P855
Santoro C.: 1085, 1132, 118, 1606, 423, P1281, P1394, P1446, P1515, P1731, P1747, P289, P292, P656, P718, P874, P885, P916, P956
Santoro G.: 165, 429
Santos A.R.: P1545
Santos C.: P251
Santos E.: P1663
Santos Furtado M.: P1369
Santos Hernandez S.: P310
Santos L.: P1499, P1781
Santos M.: P323, P976
Santos N.: P1444
Santos P.: 425, 545, 551, P1499
Santos R.: P1534, P1783, P724, P810, P876
Santos V.: 422
Santos-Goncalves I.: P1534, P1783, P724, P876
Sanz Ortega I.: P1425
Sao-Aviles A.: 1157
Sara Facetti S.F.: 89
Sara Lozano Jimenez S.L.J.: P1221, P184
Saraiva F.: P225
Saraiva M.: P1483, P241, P886, P890
Sarana A.: P683
Sarano M.E.: P1371
Sarban V.: P1488
Sardella G.: P1489
Sartas B.: P1222, P181
Sarralde Aguayo A.: 1610, 474, P1272
Sarri G.: P1362, P773
Sartre B.: P1774
Sarvari S.I.: P1345, P1452, P643
Sasaki Y.: 1031
Sasso L.: P959
Sata M.: 555, P1375, P1574
Sato K.: P272
Sato T.: P1478, P1485, P282
Sato W.: P1398, P1784, P359
Sato Y.: 1135, P1352
Satoh T.: P1510, P771, P937
Sattarzade Badkoobeh R.: P658
Saunders E.: P975

Saura D.: P1799
Sauza-Sosa J.C.: P1413
Savage H. O.: P819
Savelev A.: P736
Savic L.: P1761, P1808, P263, P308
Savoio D.: P365
Savvatis K.: P800
Sawa Y.: P1722
Sawada K.: P760
Sawada T.: 436
Sawan M.A.S.: P897
Sax B.: P1351
Saxhaug L. M.: P1410
Sayar N.: P1492, P1498
Sayin T.: 1101
Scafa Udriste A.: P1277, P307, P822
Scalamogna M.: 423, P1234, P1320, P1461
Scalese M.: 429
Scali M. C.: P1792
Scandura S.: P329
Scarafale R.: 1034, P377, P919
Scarano M.: 1649, P1654, P1669
Scatena C.: P883
Scatteia A.: P1547
Scharf C.: P1308
Schattke S.: P1235
Scheirlynck E.: P194
Scheirlynck E.S.: 536
Scherbak S.: P683
Scherbak S.G.: P759
Schiavone M.: P1230, P1304, P1458, P1539, P796
Schievano S.: P325, P944, P971
Schiller N.B.: P1328
Schinkel A.F.L.: 1040
Schirmer S.H.: P1316
Schmid C.: 563
Schmidt A.: P1350
Schneider M.: P353, P716, P920
Schnell F.: 408, P204
Schnohr P.: P1374
Scholte A.J.: P345
Scholtens A.: P968
Scholtz S.: P1569, P333
Scholtz W.: P1569, P333
Schott J.J.: 1037, P283
Schulz E.: P653
Schulz U.: P1521
Schulze B.: P1521
Schurink C.A.M.: P968
Schuster A.: 1155, 1196, 1199, P1544
Schwagten B.: P1664
Schwartzberg S.: 541
Sciberras R.: P1257
Scislo P.: 43, P1319, P1364, P1723, P684, P965
Scognamiglio G.: 46
Scopelliti C.: P883
Seabra D.: P1252, P1435, P690
Sebai F.: P1552
Sebaiti D.: 1100, P1361, P1562, P1673, P666, P764, P980
Sebaiti D.A.N.I.E.L.: P1353

Secco E.: P1806, P1807, P1810
Secinaro A.: P231, P896
Sedov V.P.: P1470
Seeburger J.: P1486
Seeland U.: P636
Seeliger T.: 542
Seferovic J.: P803
Seferovic P.: P803
Segovia Martinez E.: P310
Sehestedt T.: P1344
Sehmi J.: P837
Seiler C.: P1777
Seliger S.L.S.: P897
Sellitto V.: P754
Selton Suty C.: P1672
Selton-Suty C.: 430, P1314, P879
Sen N.: P1512, P907
Sen N.A.R.E.S.H.: P326
Senage T.: P1725
Senaratne D. N. S.: P201
Senaratne D.N.S.: P1311, P280
Sengoku K.: P1722
Sengupta P. P.: P757
Sengupta P.P.: P1693, P963
Sengupta S.: P757
Senior R.: 1613, P946
Seo B.S.: P1708
Seo W.-W.: P821
Seo Y.: P272, P908
Seol S.H.: P218
Seong I.W.: 1023, 414, P1708
Separovic Hanzevacki J.: P951
Sepulveda Sanchez P.S.S.: P1802
Sequeira C.: P1387, P1780, P817
Sequeira C.M.: 1080
Serafeim P.: P313, P921
Serati A.: P827
Serban A.: P1269, P1437
Serban M.: P922
Serena C.: P1663
Serfaty J.M.: 438, P1725, P283
Sermesant M.: P1518, P1774
Serpytis P.: 1161
Serra A.: P653
Serrano Antolin J.M.: P1377
Serrano Lozano D.: 1610, 474, P1272, P852
Serrano Munoz B.: P723, P972
Serrao M.G.: P1444
Serrats Lopez R.: P1764
Serrats R.: P1751, P704
Setti E.: P1329, P1347, P1411, P1412, P1450, P1456
Seung S.M.: P361
Severino S.: P882
Sevilla-Ruiz T.: P1799
Sezenoz B.: P893
Sfendouraki E.: P773
Sgro E.: P1791
Shah H.: 533
Shamada E.: P864
Shamoyan R.: P1768
Shamsiev G.A.: P973

Shang Q.: P1357
Shangutov O.: P1226
Shapira Y.: 541
Shaposhnik I.: P364
Sharbatfar S.: P750
Sharbaugh M.: P970
Sharif D.: P1729
Sharif Y.: P1729
Sharif-Rasslan A.: P1729
Sharma S.: P1454
Shathiskumar G.: P631
Shavarov A.: P1305
Shaw T.: P1707
Shcerbak S.G.: P236
Shehata H.: P1718, P245, P246, P247
Shehata M. S.: 477, P239
Shibata Y.: P629
Shigemitsu S.: P1703, P261
Shim C.Y.: P1727
Shim J.M.: 549
Shim W.J.: 1140, 549
Shimada T.: 560, P1265, P1575
Shimamura K.: P1315, P1762
Shimizu H.: P1398
Shimizu T.: P1703, P1749, P261
Shimoni S.: P732
Shin D.G.: P889
Shin E.-S.: 611
Shindo T.: P748
Shiraishi K.S.: P1418
Shirali G.: P1763
Shiran A.: P732
Shishido K.: P1477
Shivalkar B.: 38, P322, P974
Shmatov D.: P1386, P1538
Shoker M. R.: 1092
Shoman M.O.H.A.M.E.: P213
Shrestha S.: P963
Shubik Y.V.: P736
Shudo Y.: P1509
Shuha D.L.: 114
Siaidawi A.: P854
Siama A.: P1422, P1658, P667
Siarkos M.: P182
Siciliano A.: P808
Siciliano A.P.R.V.: 1088, 469, P328
Sicuso R.: P378
Sidorov R.: 1152
Siedlecki L.: P1242, P267
Siedlecki Ł.: P763
Siek E.: 557, P346
Sierra Lara Martinez J.D.: 1137
Sierra Lara-Martinez D.: P1323
Sierra Lara-Martinez J.D.: P1752
Sikora-Frac M.: P688
Sikora-Frac M.S.F.: 90
Sikorska K.: P1748
Siliste C.: P850
Siliste R.: 124, P1675
Silva B.: P1444
Silva Conde I.: P693
Silva Cunha P.: 422

Silva D.: P1256, P1561, P835
Silva E.: P1341, P1346, P651, P743
Silva G.: P1781
Silva J.C.: P227, P846
Silva R.C.: 469
Silva R.R.: 469
Silva S.: P1499
Silverio A.: P320, P843
Silvestre O.M.: P1369
Simeone M.: P320
Simiera M.: 39, P1245
Simoes M.V.: P1350
Simoes O.: P666
Simonovic D.: 1148
Simor T.: P1271, P1558, P290
Simova I.: 1041, P1356, P924
Sinagra G.: P1548, P286
Sinak L.A.W.R.E.N.: P1379
Sinak L.J.: P338
Sinan U. Y.: P351
Siniscalchi C.: P926
Sinitsyn V.E.: P1573
Sinning C.: P1655
Sinski M.: P368
Sipic M.: P891
Sirbu Prisecaru R.: P1664, P691
Sirico D.: P740, P744
Sirnes P. A.: 552
Sirnes P.A.: 424, P1559
Sirtori C.: P792
Sitges M.: P1467, P1809, P330, P369, P737, P903, P905
Siudalska H.: 492
Sivapathan S.: 1045, P1459
Skaarup K.G.: P901
Skalik R.: P1438
Skattebo Ø.: P1452
Skidan V.I.: P190
Skinner M.: P676
Skjetne K.: P1410
Skjolsvik E.: P799
Skjolsvik E.T.: 536
Skowron W.: P1242, P234, P763
Skulstad H.: 1134, 424, 552, P1706, P712, P797
Sladojevic M.: P772
Slart R.H.J.A.: 613
Slavich M.: P845
Sletten O.J.: 424, 552
Slim M.E.H.D.I.: P1224, P628
Slomski T.: 90
Small A. D.: P243
Smarz K.: 90, P688
Smettei O.S.A.M.A.: P213
Smirnov S.M.: P1738
Smiseth O. A.: 552
Smiseth O.A.: 415, 424, P1559, P1706, P712
Smit J.M.: P345
Smith G.: P1710
Smith J.G.: P1795
Smolis-Bak E.: P778
Smorgon A.V.: P255, P695
Smushlyaeve K.: P1391

Smushlyaeve K.A.: P813
So H.K.: P1212
Soares F.: P225
Soeda T.: P1297
Soegaard P.: P1374
Soejima K.: P1510, P771, P937
Soens L.: P194
Soesanto A.M.: P1476, P284
Sogaard P.: P301, P745, P979
Sohn D.W.: 605
Sokolov A.A.: P695
Sokolova M. V.: P1756
Soldatenko M. V.: P695
Soldi M.: 547, 559
Solholm A.: P717
Soliman H.: P1682
Soliman M.A.: P1511, P1744
Solomon C.: 1093, P1796
Solovev O.V.: P736
Soloveva A.: P1381, P1537, P958
Solowjowa N.: 433, P294
Soltani S.: P294
Soltész A.V.: 1141
Soltý K.: P1216
Solymossi B.: P1775
Son J.W.: P1262
Sonal T.A.N.W.A.R.: P326, P907
Sonecki P.: P765
Song J.K.: P1516
Song J.M.: P1516
Song P.S.: P1288, P701
Song Y.B.: 1156
Song Y.J.: P218
Soriente L.: P1479
Sormani P.: P1684
Sorrentino R.: 118, 423, P1234, P1320, P1461, P292, P754
Sosdean R.: P1220
Sotiriou P.: P1325
Soto Gonzalez I.S.G.: P694
Soulat-Dufour L.: P1523
Souliou J.P.: P1725
Sousa A.R.: P227
Sousa Bispo J.: P1256, P835
Sousa C.: 116, 86, P1236, P1240, P227, P238, P831, P846, P964
Sousa J.: P1444
Sousa J.A.S.: 1616, P1253
Sousa J.P.: P1301
Sousa L.: 164, 1648, 166, P1280, P673, P678
Sousa P.: P323
Souza J. R. M.: P1480, P1501, P729
Souza L.C.V.F.: P1418
Soylu Ö.: P1439
Sozzi F.: P1230, P1304
Sozzi F. B.: P1458
Sozzi F.B.: P1539, P796
Spaggiari I.: 1086
Spaltenstein J.: 563
Spano' F.: P1684
Spasic Marijan S.M.: 1614
Spataru D.V.: 124, P1675

Spaziani C.: 1082, P960
Spears A.: P209
Speiser U.: P1366, P319
Spera L.S.: P334, P337
Sperlongano S.: 1133, 1149, P919
Spethmann S.: P1235
Spiewak M.: 1091
Spinarova L.: P1571
Spini V.: P1532, P220
Spinka G.: P920
Spirito P.: P747
Spoladore R.: P845
Sportouch-Dukhan C.: P879
Squillace M.: P1230, P1304, P1458, P1539, P796
Srbínovska E.: P1426, P1801
Srdic M.: P308
Sridi S.: P1554
Sritharan H.: P739
Srojidinova N.Z.: P699
Staels B.: 1032
Stampfli S. F.: P1782
Stangl K.: P1235, P634, P636, P642, P784
Stangl V.: P636, P784
Stanimirovic S.: P1237, P299
Stankovic G.: P1307, P735, P803, P912
Stara V.: P1449
Starekova J.: P1655
Starmer G.: P209
Starzyk K.: 475
Stasek J.: P1359
Staskiewicz G.: 557, P346
Stazi A.: P1282
Steeds R.P.: P653
Stefan C.: P295
Stefanadis C.: P773
Stefani L.: P751
Stefanidis A.: P767
Stefanidis E.: P1341, P1346, P651, P743
Stefanini E.: P198, P200
Stefano P.L.: P722
Steffens D.: P1502, P881
Stella S.: 612, P1282, P1368, P279, P845
Stepanova A.I.: P1358
Stepanovic J.: 1147, P682
Stepien A.: P648, P649
Stevanovic A.: P790
Stewart G.: 1045
Stewart J.: P880
Stiermaier T.: 1155, 1196, 1199
Stingone A.: P219
Stockman D.: P1664
Stoebe S.: P1216, P1383, P276
Stoelen S.: P1410
Stoerk S.: 417, P1785, P195
Stoian M.: P295
Stoica A.: P626
Stojanovic S.: 1148
Stojkovic S.: P1307, P735, P912
Stojisic S.: P1500, P772
Stojisic-Milosavljevic A.: P1500, P772
Stokfisz K.: P374

Stokke M.K.: 536
Stokke T. M.: P643
Stompel D. R.: 1647
Storring N.: P1276
Storsten P.: 424, 552, P1706, P712
Stoylen A.: P861
Stracchi V.: P733
Strachinaru M.: 1040
Strata M.: P1539
Stricagnoli M.: P935
Stricagnoli M.S.: P334, P337
Strisciuglio T.: P1805
Stryuk R.: P1303
Stugaard M.: 415
Stulle A.: 1196
Sturiale C.L.: P659
Sturla F.: P731
Sturmberger T.: P918
Sturridge L.: P1430
Stutzbach P.: P1291
Styczynski G.: P368
Styliadis I.S.: P1254
Su B.: 1203
Su J.: P1212
Suarez De Lezo Herreros De Tejada J.: P1474
Sufrate Sorzano E.: P1226, P192
Sugeng L.: P1697, P1697
Sugimoto K.: P1473, P1788, P1788
Sugimoto T.: 540, P1334, P1339, P274
Sugiura T.: 416
Suh J.: 610
Suhai F.: P1407, P1434
Suhai F. I.: 434
Suhai F.I.: 1158, P1558, P367
Suhail S.: 1084, P1504, P1659
Sukmawan R.: P1553, P278
Sulaiman A.: 473
Sulemane S.: P1326
Sulovic V.: P1808, P263, P308
Suma S.: 1082, 1086, P1660, P960
Sun Y.Q.: P1212
Sunbul M.: P1492, P1498
Sunderji I.: 1024
Sundqvist M. G.: P1466
Sung J.: 606
Sung J.M.: 606
Suran M.C.B.: P850
Surdacki A.: P1397
Suri R.: 1084, P1504
Surkova E.: 1613, 544, P1771, P237, P946
Susana Mingo Santos S.M.S.: P1221
Susin F. M.: P325, P944
Susini F.: P378
Sustar A.: P1743
Sustersic M.: 494
Sutcliffe S.: P209
Sutherland S.: P1326
Suzuki H.: P789
Suzuki K.: P1352
Suzuki M.: P1259, P1421, P1732
Suzuki R.: P1478, P1485, P282
Suzuki T.: 1135, P1352

Svedlund S.: P1355
Sveric K.: P1366, P319
Svitil J.: P319
Svobodova I.: P1571
Swart L.E.: P968
Swedberg K.: P781
Sydo N.: P1770, P1772, P1775
Sydorova L.: P791
Sydorova N.: P791
Synodinos A.: P945
Syrkin A.L.: P1470
Syska P.: P1403
Szabados S.: P1271
Szabo L.: 1158, P1558, P367
Szigeti S.: 1141
Szilveszter B.: 434, P1407, P1434
Szmigielski C. A.: P368
Szolnoky G.: P1496, P943
Szostak-Janiak K.: P1402, P360
Sztot W.: P648, P649
Szulc M.: P1816
Szummer K.: 1080, P817
Szurowska E.: 1046, 115
Szwed H.: 492, P1403, P778
Szymanska K.: P820
Szymczyk E.: P1231, P1239
Szymonowicz M.: P1306, P254

T

Taamallah K.: P1753, P727
Taamallah K.A.R.I.M.A.: P1753, P1754, P1757
Tabassian M.: 1024, P807
Tabib A.: P260
Taborchi G.: P240, P722
Tada E.: P760
Tada T.: P1575
Taddei C.: P1532, P220
Tadic S.: P1500, P772
Tagliamonte E.: P925
Taguchi H.: 560
Taha K.: 1018
Tahir E.: P1655
Tajmir Riahi M.: P833
Tajstra M.: P709
Takada K.: 1611, P1473, P1788, P672
Takagi A.: P1247
Takagi Y.: 1611, P672
Takahashi K.: P1703, P1749, P261
Takahashi L.: 411
Takahashi N.: 436
Takai M.: P1352
Takemoto K.: P1315, P1762
Takeuchi M.: 544
Takeuchi Y.: P1265, P1575
Takubo N.: P1749
Takura M.: 560
Talaat A.: P670
Talaviya B.: P1423
Tam L.S.: P1357
Tamaichi H.: P1703
Tamasescu G.: P295
Tamborini G.: 1038, 123, P1441, P1773, P1776,

P318, P715
 Tamburino C.: P1419, P1769, P329
 Tammam A. A.: 1139
 Tammo R.: 125
 Tamulenaite E.: P303, P933
 Tan T.S.: P840
 Tanabe Y.: 1135
 Tanaka A.: P1315, P1762
 Tanaka D.M.: P1350
 Tanaka N.: P969
 Tanase M.D.: P697
 Tang H.C.: P664, P669
 Tang W.H.: 45
 Taniguchi Y.: 436
 Tanis W.: P968
 Tanner F.C.: P1782
 Tantillo E.: P883
 Tanwar S.O.N.A.L.: P1512
 Tanzilli G.: P208
 Taormina A.: P917
 Taramasso M.: 113
 Tarasov D. G.: 1647
 Tarcza Z.: P1775
 Tartaglione D.: P377
 Tasakai Y.: 560
 Tastet L.: P1287
 Tatsuta D.: P1478, P1485, P282
 Tautu O.: P822
 Tavares A.: P1663
 Tavares Da Silva M.: P831
 Tavares De Melo M.D.: P807
 Tavares-Silva M.: P846
 Tavernier R.: P1805
 Tavoletta V.: P1565
 Tavoosi A.: P658
 Tayal B.: P1216, P1374, P301, P745, P979
 Tayar A.: P865
 Tchitchinadze M.: P1798
 Teiger E.: 556
 Teixeira A.: 502
 Teixeira C.: P839
 Teixeira R.: P1519
 Teixido G.: 1197, P1542, P1799, P354
 Teixido-Tura G.: 1157, 1202, P1550
 Tempesta A.: P180
 Tenaglia R.: 537, P1517, P1806, P1807, P1810
 Teo L.Y.: P664
 Teramoto K.: P1352
 Tercero Martinez A.: 1090, P814
 Tereshina O. V.: P1742, P298
 Teresi L.: P1522
 Terlizzese G.: 471
 Terlizzese G.: P665
 Ternacle J.: 556, P879
 Terra T.M.S.: P1480, P1501, P729
 Tesic M.: 1044, 1147, P1237, P1307, P203, P299, P682, P735, P803, P912
 Teske A.J.: 1018, P1804
 Testa L.: 1618, P198, P199, P200
 Testa P.: P230
 Teuteberg J.: P1509
 Teixeira T. F.: P1792

Thabet H.O.U.S.E.M.: P1224, P628
 Thabet N.A.G.W.A.: P217
 Thaden J.: P338
 Thaden J.J.: P1371
 Thambo J.B.: P1554
 Thambyrajah J.: P653
 Thavendiranathan P.: P1464
 Theodoropoulos K.: P1395, P913
 Theodosios-Georgilas A.: P767, P787
 Theres L.: P634
 Thiagalingam A.: P1459
 Thiele H.: 1155, 1196, 1199, P1486
 Thielman N.M.: P756
 Thoenes M.: P653
 Thoma F.: P970
 Thomas K.: P1311, P201, P280
 Thomas L.: 1045, P1459, P1468, P1505, P676, P739
 Thomas M.: P188
 Thome B.B.: 114
 Thomopoulos T.: P1750
 Thomson J.: P853
 Thomson J.D.R.: P1273
 Thottakara T.: P1655
 Thygesen J.P.: 47
 Tiau W.J.: P1225, P631
 Tica O.: P189
 Tica O. A.: P189
 Tiezzi D.R.: P1480, P1501, P729
 Tiffe T.: P1785, P195
 Tigen K.: P1492, P1498
 Timmermans F.: 1138, 534
 Timmis A.: P1363
 Timofeeva I.: P1803, P342
 Timoteo A.: P728, P967
 Timoteo A. T.: P749
 Timoteo A.T.: P311
 Tinica G.R.: P1482
 Tiu A.K.: P1503
 Tiziano T.: 1651
 Tkachev I.: P212
 Tkachev I.V.: P1738
 Toba M.: P1478, P1485, P282
 Tocci G.: 1034, 1133, 1149, P919
 Todaro M.C.: P730, P866
 Tok O.: P1442
 Toki M.: P1214, P621
 Tokodi M.: 1141, P1351, P1693, P1770, P1772, P757, P963
 Tolba N.: P909
 Tolis E.: P1779
 Tolis P.: P1779
 Tomas Kazakevicius T.K.: P1292
 Tomasevic M.: P1307, P912
 Tomassoni G.: P335
 Tomaszewski A.: P1689
 Tomic-Dragovic M.: P735
 Tondo C.: P378, P906
 Tonhajzerova I.: P1219
 Tonti G.: P1565
 Topham A.: P1400
 Toquet C.: 1037

Torii Y.: 555, P1375, P1574
 Tornoczek T.: P1271
 Tornos P.: 1197
 Torres M. A. R.: P1792
 Torres P.: P1507
 Torres S.: 116, P1236, P1240
 Torres Sanabria M.: P1348, P900
 Torres-Quintanilla F.J.: P1300
 Torromeo C.: P1522, P285
 Torta D.: P1737, P865
 Toscano E.: 612, P1368
 Tosello F.: P1529, P741
 Toser Z.: 1141, P1772
 Tossavainen E.: P1399, P375
 Toth A.: 1158, 434, P1558, P367, P630
 Toton-Zuranska J.: P254
 Toufan M.: P317
 Tountas C.H.: P787
 Tournoux F.: P936
 Tousoulis D.: P1362, P1779, P773, P945
 Townsend C.: P1311, P280
 Toyokawa N.: P1259, P1318, P1732
 Trabattoni D.: 558
 Trabattoni P.: P715
 Trabulo M.: P1683, P327
 Trachta P.: P1527
 Trasca L.: P330
 Trasca L.F.: P1676
 Travieso Gonzalez A.: P1555
 Traynor B.: P841
 Triantafyllidi H.: P1342, P1395, P1528, P913, P953
 Tribouilloy C.: P870, P879
 Trifunovic D.: P1237, P1761, P1808, P203, P263, P299, P308, P803
 Trifunovic-Zamaklar D.: P682, P735, P912
 Triggiani D.: P843
 Trigo J.: 472, P1726
 Trikas A.: P1653, P1750
 Trimarco B.: P1234, P1320, P1333, P1461, P371, P754
 Trinidad Lopez C.: P348
 Trisvetova E.: P1390
 Trivedi S.: P1505, P739
 Trivilou P.: P953
 Trochu J.N.: 1037, 438
 Trofenciuc M.: P794
 Trojarska O.: 168
 Trotta F.: P1776, P378
 Truman K.: P1481
 Truong S.: P1329, P1347, P1411
 Tryfou E.: P1495, P1741, P786
 Trzos E.: P1243, P1380, P762
 Tsagkridi A.: P837
 Tsai W.C.: 1099
 Tsai W.-C.: P316
 Tsatiris K.: 1644
 Tse G.: P1357
 Tselov N.: P1759, P770
 Tsimikas G.: P1741, P786
 Tsokolov A.V.: P1382
 Tsonev S.V.: P1759, P770

Tsoukas A.: P1422, P1658, P667
Tsuda M.: P1722
Tsujiuchi M.: P789
Tsukahara M.: P1352
Tsuneto A.: P1289
Tsunoda F.: P789
Tsverava D.: P949
Tsverava M.: P949
Tucureanu M.: P1338
Tudor L.: P1743
Tufano A.: 118, P371
Tufaro V.: P199
Tuka V.: P1527
Tulunay Kaya C.: 1101
Tundidor Sanz E.: 1077
Tundidor Sanz M.E.: P348
Tungusova M.A.: P1738
Tuosto D.: P1793
Turani M.: P1407
Turco A.: 413, P962
Tureli H.: P1241
Turhan Caglar N.: P620
Turhan F. N.: P1241
Tusa M.: 1034, 1618, P198, P199, P200
Tuzcu E.M.: 1084, P1504
Tytarenko N.: P708
Tzalamouras V.: P1716
Tzamour V.: P1750
Tzimas G.: 121, P818
Tzortzis S.: P953

U

Uddin H.: 1645
Ueda T.: P812
Uejima T.: 411
Ugander M.: P1466
Uhlig J.: 1199
Uhlig S.: 557, P346
Uhlmann L.: P265
Ulbrich S.: P319
Ullate A.: P1670
Ullate De La Torre A.: P725
Ungor S.: 1650
Unlu S.: 413, P893, P962
Urbanczyk M.: P224
Urkullu Naveda A.: P811
Urluescu M.L.: P929
Urraca Espejel C.: P814
Usalp S.: 122
Usenkov S.Y.U.: P255
Utrera Perez E.: P348
Uy M.: 1027, P740
Uy M.P.: P744
Uygur B.: 1617
Uznanska-Loch B.: P1380
Uzu K.: 436

V

Vacca P.: P1791
Vaccari G.: P747
Vaccaro A.: P1234, P1461, P371

Vaccaro V.: P730
Vadana M.: P1338
Vaes L.: P974
Vago H.: 1158, P1558, P367, P630
Vaida Mizariene V.M.: P1292
Vaitkeviciute I.: P1697, P1697
Valdovinos-Banuelos A.: P1300
Valencia O.: P1503
Valente F.: 1157, 1195, 1197, 432, 435, P1550
Valenti R.: P722
Valera Martinez F.J.V.M.: P356
Valerianova A.: P1527
Valeviciene N.: 1161, P1546
Valkusz Z.: P942
Vallejo Garcia V.: P1662
Vallalonga F.: 1083
Valli F.: P1737, P865
Valverde Gomez M.: P1543
Van Berendoncks A. M.: P349
Van Berendoncks A. M. L.: P1275
Van Camp G.: P1341, P1346, P651, P743
Van Cleemput J.: P804
Van De Heyning C.: P322, P974
Van De Heyning C. M.: 38
Van Den Bosch A. E.: P349
Van Doorn C.: P1273
Van Grootel R.: P349
Van Hoeck N.: P322
Van Kranenburg M.: P349
Van Mieghem N.M.D.A.: 1609, P968
Van Rosendael A.R.: P345
Van Zalen J.: P1363, P1400
Vancheri F.: P710
Vancon A.C.: P1314
Vancraeynest D.: 1025, 535
Vancsa C.V.: P1811
Vandekerckhove Y.: 1138, P1805
Vanderbriele C.: P1682
Vandermotte V.: 38
Vandervoort P.: 45
Vandervoort P.M.: 111
Vanessa Monivas Palomar V.M.P.: P184
Vanoverschelde J.L.: 1025, 535, P870
Varga A.: 1041, P1356, P1407
Varghese G.: P1694, P350
Varma C.: 500
Varoudi M.: P1342, P1395, P1528, P913, P953
Vasconcelos M.: 86, P1240, P227, P831
Vasile M.: 496, P191
Vasilyeva L.: 125
Vasilyeva L.I.: 125
Vaskelyte J.J.: P933
Vassilikos V.: P804
Vattay B.: 434
Vaturi M.: 541
Vaughan C.: P719
Vaughan G. F.: 431, P975
Vavlukis M.: P1426
Vaz R.: P1499
Vazquez De Prada Tiffe J.A.: 474, P1272
Vazquez-Rodriguez J.M.: P927
Vecchione R.: P1409

Vega Hernandez B.: P310
Vegas Valle J.M.: P310
Veglio F.: 1083, P1529, P741, P795
Velasco Del Castillo S.: P811
Velasquez F.: P1467, P903
Velato L.: 1154
Velcea A.: 1026
Velcea A.E.: P850
Vella A.: P297
Veloso S.: 1097, P1568
Venieri E.: P773
Venkateshvaran A.: 1080, P1387, P1780, P817
Venner C.: P1672
Venturi P.: P230, P808
Vera Janavel G.: P1291
Vera-Pineda R.: P1300
Verberne H.J.: 614
Verboczki G.: P794
Verbrugge F.H.: 45
Verde N.: P248
Veress B.: P1407
Verhaert D.: 45
Verikas D.: P1312
Vermeersch P.: P849
Vernardos M.: P302, P955
Veronesi F.: 1038, P318
Verrocchio S.: P1793
Verschure D.O.: 614
Verveniotes A.: P1362, P1779, P945
Verzosa G. C.: P757
Vezzani A.: 1086, P960
Via G.: 1651
Viacava C.: 165, 429
Vicedomini G.: P731
Vicenzi M.: P1230, P796
Vidal B.: 437, P1467
Viecca M.: 95, P332, P906
Viegas J.R.: 114
Vieira C.: P1435, P1667, P1671, P252, P314, P678
Vieira M.: P1256
Vieira M.J.: P1483, P890
Vieitez Florez J.M.: P1322, P1446, P1747, P270, P720, P874
Vieitez J.M.: P663
Vieitez Florez J.M.: 1085
Vignati C.: 123, P1441
Vignati G.: P1684
Vijiac A.: P295
Vijiac A. E.: P1376, P1533
Vikenes K.: P717
Vilades Medel D.: P1758, P775, P888
Vilardell P.: P197, P647
Vilela E.: P210
Viliani D.: P1568
Villalva N.: 1157, 1202, P1550, P354
Villano A.: P950
Villanova L.: 471, P665
Villanueva Campos A.: P348
Villar Garcia M.: 1090
Villari B.: P1309
Villevalde S.: P1381, P1537, P958

Vilmanyi G.: P290
 Vincentelli A.: 1032
 Vinco G.: 1136, 117, P1484, P196, P624
 Vinereanu D.: 1026, P1284, P1338, P1464, P1676, P703, P780, P823, P850
 Vintila A.M.: 124, P1675
 Virz O.: P838
 Visoiu I.S.: P1284
 Visoiu S.I.: 1026
 Vitale D.: P952
 Vitale E.: P934
 Vitarelli A.: P206, P208, P635
 Viveiros Monteiro A.: P673
 Vivien M.: 438
 Vizzari G.: P755
 Vlachopoulos C.: P945
 Vlachos P.: 170
 Vlachos S.: P1528
 Vladareanu A.M.: P780
 Vlasenko S.: P683
 Vlastos D.: P1342, P1395, P1528, P953
 Vleugels J.: P905
 Voegele J.: P1308, P878
 Vogt P.: P1308, P878
 Voigt J.U.: 424, P1706, P712, P804
 Voigt J.-U.: 1150, 413, 42, 425, 545, 551, P962
 Volpato V.: 1038, P318, P324
 Von Hafe Leite P.: P806, P809, P810
 Von Hafe P.: P1463
 Von Roeder M.D.W.: P1486
 Vonbank K.: P353
 Voon V.: P841
 Vorkapic M.: P1761
 Vorobyovsky D.: P683
 Vos H.J.: 1040
 Votta E.: P731
 Vouga L.: 546, P707
 Vranes D.: P891
 Vranes Danijea V.D.: 1614
 Vrbic S.: P705
 Vrettou A.R.: P913, P953
 Vrints C.: P322
 Vríz O.: P1786, P321
 Vrublevskaia O.: P1390
 Vrublevsky A.: P977
 Vukcevic V.: 1147, P1307, P912
 Vukic Dugac A.: P951
 Vullo V.: P635
 Vunckx K.: 413, P962

W

Wabich E.: 1046, P309
 Wada T.: P1460
 Wada Y.: P969
 Wadie M.M.: P315
 Wafa S.: P1797
 Wagner M.: P1785, P195
 Wahadat A.R.: P968
 Wahi S.: P1310, P1778
 Wakami K.: 416
 Wakatsuki T.: P1375
 Waktare J.: P1710

Waleed M.: P1258
 Wallis A.: P1481, P269
 Walmsley J.: 1022
 Wang B.O.: P1570
 Wang J.: P1570
 Warin-Fresse K.: P283
 Warnica J.W.: P1790
 Watada H.: P1749
 Watanabe H.: P1398, P1784, P359
 Watanabe M.: 1135, P1297, P1318
 Watanabe N.: P629
 Watanabe Y.: P185
 Waterworth P.: 1605
 Watnick T.W.: P897
 Watson O.: P853
 Wauters A.: P1268
 Wdowiak-Okrojek K.: P1231, P1406, P742
 Wechalekar A.: P798
 Weidemann F.: P737
 Weinert L.: 1038, P318
 Weinkouff Pedersen M.: P1374
 Weinsaft J.W.: P1337, P895
 Weir D.: P903
 Wei-Ting C.: P1695
 Wejner-Mik P.: P1231, P742, P788
 Wendler O.: P1716
 Werner B.: P640
 Werther Evaldsson A.: P1710
 West C.: 172, P237, P946
 Weytjens C.: P194
 Wheatcroft S.: P1258
 Wheeler S.: P1311, P280
 Whelan C.J.: P971
 White D.: P1763
 Widyanti A.P.: P905
 Wierzbowska-Drabik K.: 1153, 39, 44, P1243, P1380, P721, P762, P924
 Wierzbowska-Drabik K.W.D.: P207
 Wigen M.: P861
 Wiklund U.: P1399, P375
 Wikstrom G.: P375
 Wilansky S.: 470
 Wiley B.M.: P1371
 Wilk A.: P256, P257
 Willemen E.: 1022, 421
 Willems R.: 1150, 42
 Williams C.: P1481
 Willner N.A.: P273
 Wilson J.: P1393
 Winek D.: 90
 Wisniowska-Smialek S.: 550, P224, P254, P648, P649, P698
 Wisniowska-Smialek S.Y.L.W.I.A.: P1306
 Witowski J.: P1406
 Witsenburg M.: P349
 Wojciechowska M.: P1536
 Wojcik A.: 492
 Wojcik M.: P346
 Wojtkowska A.: P1689
 Woldman S.: P188
 Wolkow P.: P254
 Wong C.Y.: P679

Wong T.: P864
 Woo J.S.W.: P954
 Wort J.: 163
 Wozakowska-Kaplon B.: 475, 475
 Wu M.: 112, 420
 Wypasek E.: P1306
 Wysokinski A.: P1689

X

Xabier Cia Mendioroz X.C.M.: P184
 Xavier Fontes A.: P1663
 Xia W.: P1814
 Xie A.: 112, 420
 Xova P.X.: P1254
 Xu J.: P970

Y

Yacoub M.: P1472
 Yadeta D.: P717
 Yakubov A.A.: P702, P815
 Yakubovskaya E.E.: P1470
 Yam M.C.: P1212
 Yamabe T.: P1477
 Yamada A.: 1611, P1473, P1788, P672
 Yamada H.: 555, P1375, P1574
 Yamada M.: P1703, P261
 Yamaguchi K.: P1375
 Yamaguchi N.: 1078
 Yamamoto J.: 416
 Yamamoto K.: 416
 Yamamoto M.: P272
 Yaman B.: 122
 Yamanaka F.: P1477
 Yamane T.: 1031
 Yamashita T.: 411
 Yamat M.: 1038, P318
 Yan B.P.: P1357
 Yanagihara K.: P1289
 Yang D.H.: P1516
 Yang F.: P1570
 Yano H.: P1259, P1732
 Yano M.: P969
 Yap E.M.: P1487
 Yaroslavskaya E.I.: P1317
 Yasaka Y.: 436
 Yaseen R.I.: P300
 Yashin S.M.: 419
 Yazaki K.: P1703, P1749, P261
 Yedidya I.: 541
 Yehia A.: P247
 Yeni M.: P622, P830
 Yiangou K.: P1270, P1454, P787
 Yilancioglu Y.: P1436
 Yildirimturk O.: P181
 Yim D.: P1713
 Yin Y.: P864
 Yokose S.: 560
 Yoo B.S.: P1262
 Yoo J.W.: P361
 Yoon H.J.: P1525
 Yoon Y.E.: 605

Yoon Y.E.Y.: 554
 Yoon Y.W.Y.: P1389
 Yoshida K.: P1214, P621
 Yoshimuta T.: P1289
 Yoshino H.: P1510, P771, P937
 Yoshioka K.: 1033
 Yoshitani K.: P1530
 Youn H.J.: P266, P774
 Yousif A.: 500
 Youssif A.: P1766
 Youssef M.M.: P315
 Yu C.W.: 1140, P1288, P701
 Yu C.-W.: 610
 Yue Q.: 420
 Yuksel Y.: P1531
 Yurdakul S.E.L.E.N.: P1714

Z

Zabek A.: P648, P649
 Zaborska B.: P688
 Zabun M. M.: P1451
 Zaca V.Z.: P334, P337
 Zagatina A.: P1386, P1538, P924
 Zaglavira P.: P1445
 Zagoni C.: P691
 Zahos P.: P787
 Zahrn H.: P677
 Zainal Abidin H. A.: P211
 Zainal Abidin H.A.: P211
 Zainal H.: P623
 Zajac D.: P1403
 Zakartaite D.: P1312
 Zakoscielna M.: P1689
 Zaliaduonyte-Peksiene D.: P1312
 Zaloudkova L.: P1359
 Zamboni M.: 1136, P196
 Zamfir D.: P295

Zamfirescu B.M.: P233
 Zamorano Gomez J.L.: 1085, 120, 1606, P1281, P1322, P1394, P1446, P1515, P1543, P1747, P270, P720, P874, P916
 Zamorano J.L.: 1132, P1731, P1787, P289, P656, P663, P718, P885, P956
 Zamorano-Gomez J.L.: 119
 Zampachova V.: P1571
 Zanaboni J.: 553
 Zannata M.: P959
 Zana C.: P1431
 Zarek A.: P256, P257
 Zarembo T.: P1248, P301, P745, P979
 Zarifis I.: P182
 Zarzur J.: P250
 Zaslavskaya E.: 419
 Zattera C.: P1791
 Zavadovskiy K.: P977
 Zavarehee A.B.B.A.S.: P1414
 Zbacnik R.: 1608, 494, P1678
 Zbronski K.: P965
 Zdrengha D.: P844
 Zebrowski D.: P1406
 Zecchin R.: P1468
 Zechowicz M.: P1681, P1688
 Zehier A.M.: P623
 Zeiher A.: P211
 Zelazowska W.: P256, P257
 Zelechowski M.W.: P1248
 Zellweger M.J.: 608
 Zemir H.: P733
 Zemljic G.: P1678
 Zemskov I.A.: P726
 Zerditzki M.: 563
 Zhang J.: 607
 Zhang Y.: P1692
 Zheng R.: P1375
 Zhou H.: P211, P623

Zhu Q.: P1697, P1697
 Zhu Y.S.: P1212
 Zhuravskaya N.: P1386, P1538
 Ziada K.: 93, P245, P246
 Ziarkiewicz-Wroblewska B.: P368
 Zielinska M.: P374
 Zielinski J.: 492
 Ziemska M.: P256, P257
 Ziencuk A.: P309
 Ziencuk-Krajka A.: 1046
 Zieniewicz K.: P368
 Zierath J.R.: P711
 Ziginiski E.: P303
 Zisimos K.: P1362, P1779, P945
 Zitiridou L.Z.: P1254
 Zito C.: P1334, P1339, P274, P730, P755, P862, P866
 Ziubryte G.: P1312
 Zivlonghi C.: 1136, 117, P624
 Zivkovic M.: P1307, P912
 Zizek D.: P1678
 Zocaro G.: P741
 Zocchi C.: P722
 Zografos T.: P1349, P205, P313, P921
 Zoppini G.: P899
 Zribi A.: P727
 Zuber M.: 113
 Zuercher F.: P1777
 Zugazabeitia Irazabal G.: P811, P836
 Zugwitz D.: P179
 Zulian F.: P904
 Zuniga J.: P1507
 Zuo L.: P1570
 Zurada A.: P1688
 Zurawska M.A.: 492
 Zurba S.: P1480, P1501
 Zvirblyte R.: P303
 Zyrianov A.: P747

**Present Your Research at the Premier
Cardiovascular Ultrasound Conference of the Year**

ASE 2019



30

**YEARS OF
INNOVATION**

Scientific Sessions • June 21-25, 2019

Oregon Convention Center • Portland, OR

ASEScientificSessions.org

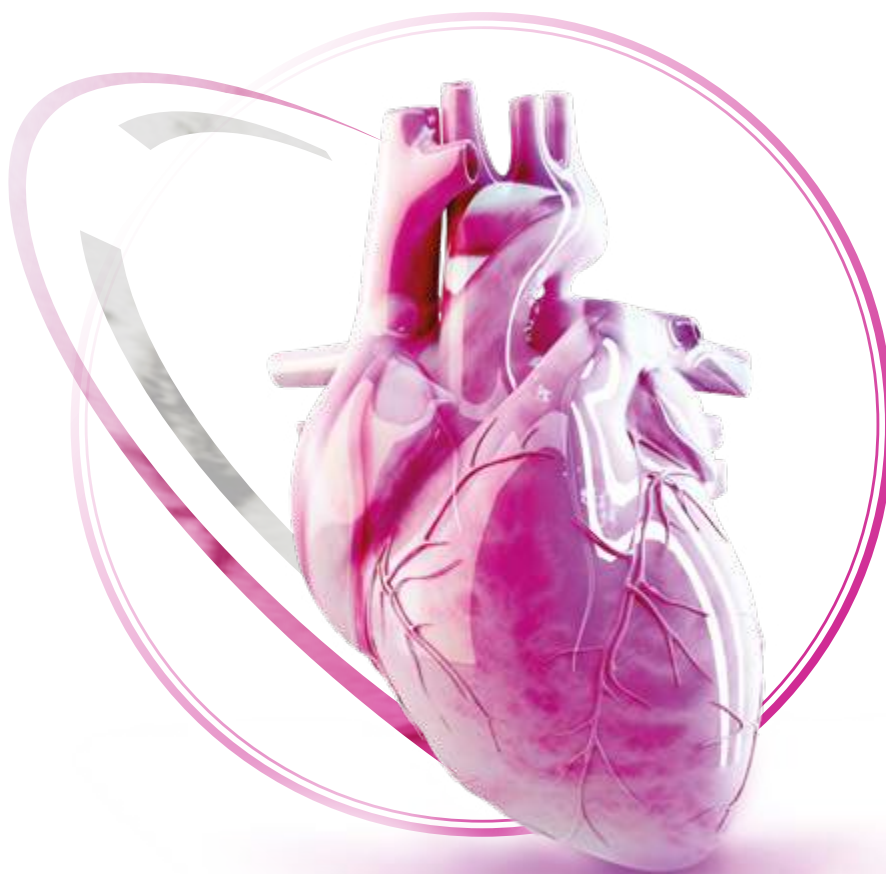
**Abstract
submission closes
February 6, 2019**



EACVI
European Association of
Cardiovascular Imaging

EuroEcho 2019

THE LEADING ECHOCARDIOGRAPHY CONGRESS



4-7
December | **Vienna**
AUSTRIA

23rd Annual Congress
of the EACVI
www.escardio.org/EACVI



ESC
European Society
of Cardiology